

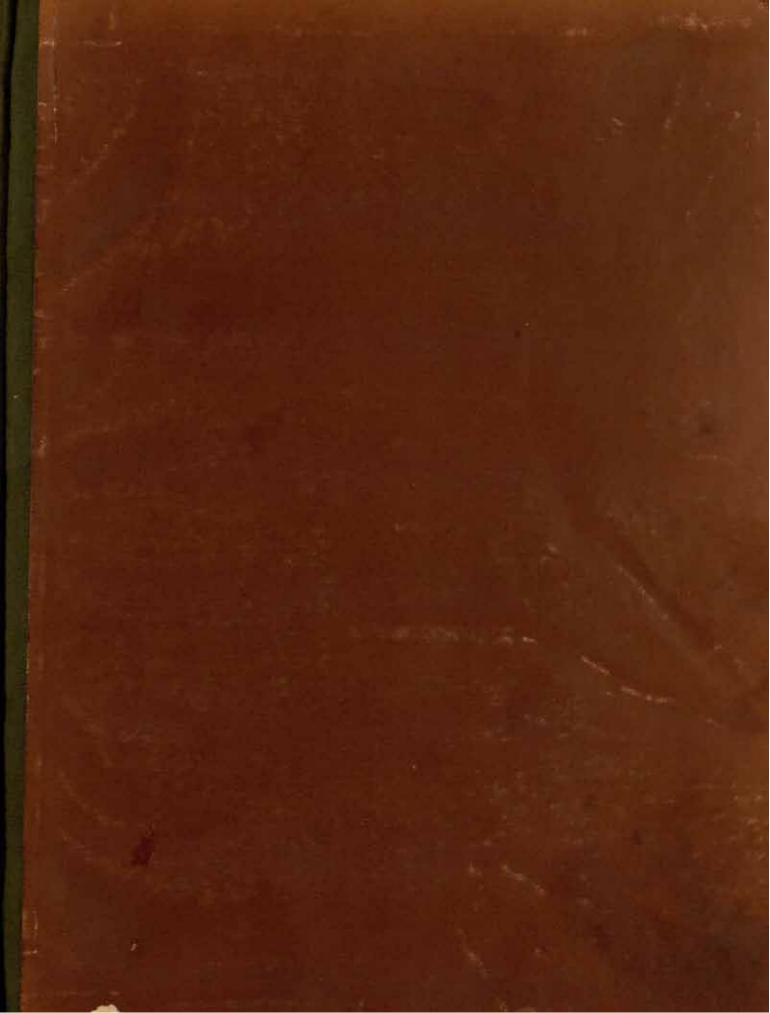
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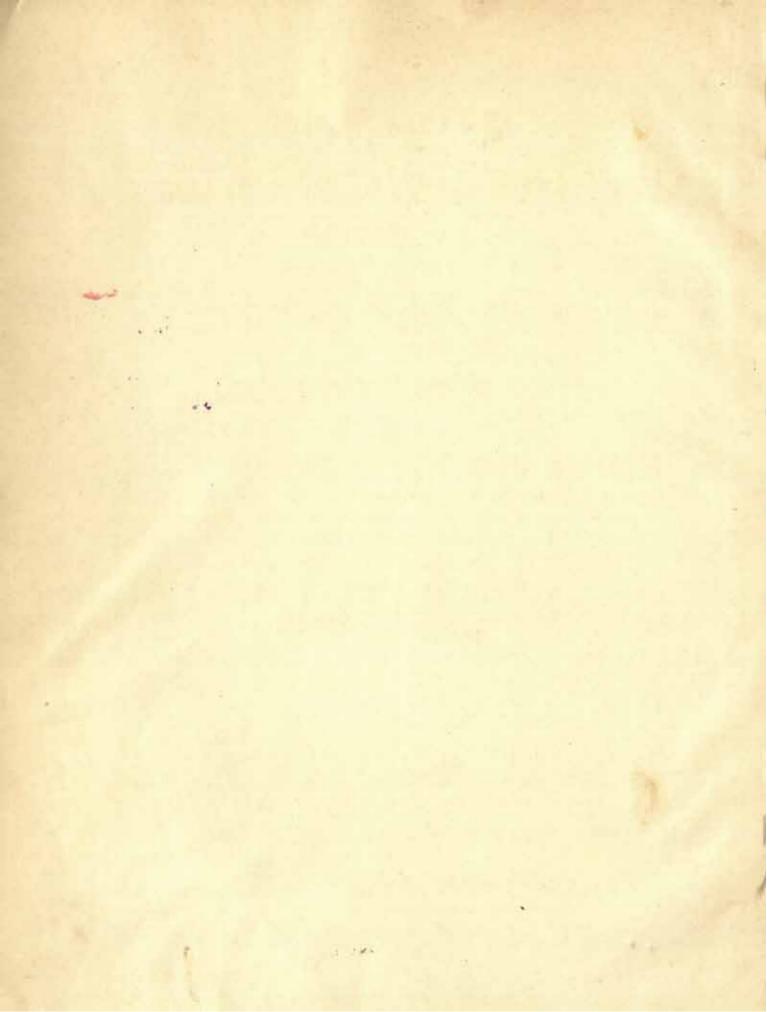
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The Siddhantas and the Indian Calendar

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BEING A CONTINUATION OF THE AUTHOR'S

"INDIAN CHRONOGRAPHY"

WITH AN ARTICLE BY THE LATE DR. J. F. FLEET ON THE MEAN PLACE OF THE PLANET SATURN



BY ROBERT SEWELL, M.R.A.S.,

LATE OF H. M.'S INDIAN CIVIL SERVICE; JOINT AUTHOR OF "THE INDIAN CALENDAR".

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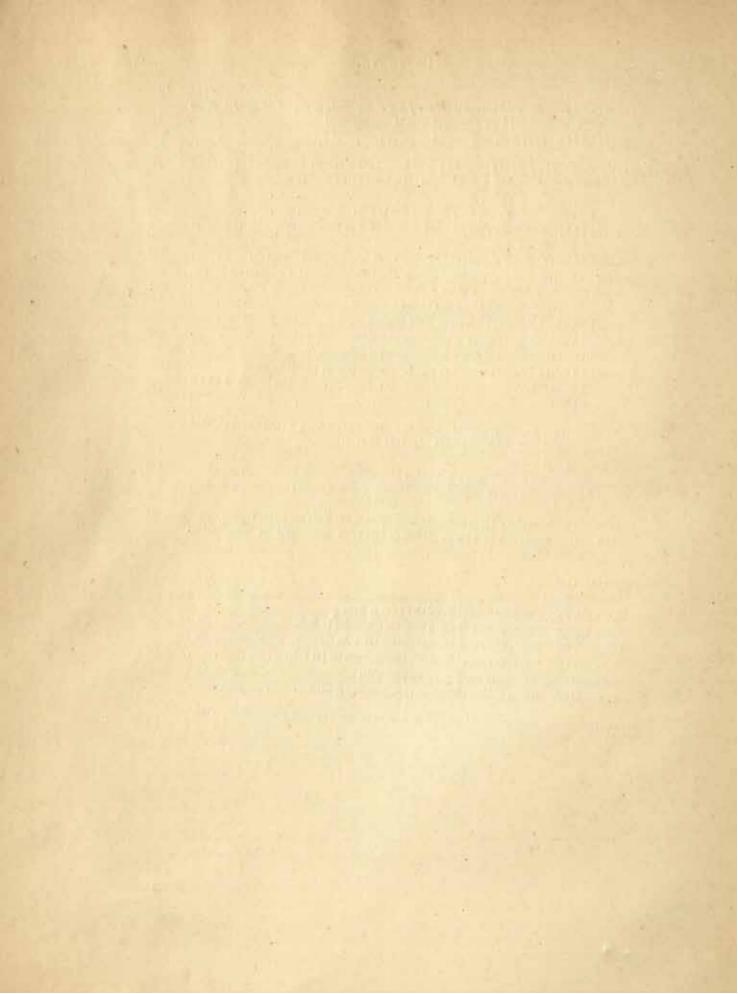
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ERRATA PAGE.

Indian Chronography, p. 62. For the calculation at top of page substitute the following:-

h. m. s.

m Man - hat it has \$ 9:7.71 (may	1-	-43
True Měsha-samkranti by Ārya-Siddh. (Tal. 1), A.D. 1899	. 12 April (102) 4 Wed. 6 7 3	00
Add sodhya by Ārya-Siddh	. 2 2 2 3 32 3	10
Mean Mēsha-samkrānti by Ārya-Siddh	. 14 April (104) 6 Fri. 9 40	θ
For 5,000 years deduct (Table on p. 61)	-1 $-1-1$ -5 10	0
Mean Měsha-samkránti by $B,-S,$ and $S,-\tilde{S}ir\tilde{o},$. 13 April (103) 5 Thur. 4 30	0
Deduct SiddhŚirōmani śōdhya	2 -2-2 -4 20 5	6.8
True Mësha-samkranti by Siddh, Siromani	. 11 April (101) 3 Tues, 0 9 3	3-2

True Mēsha-samkrānti by Siddh.-Sirōmani . 11 April (101) 3 Tues. 0 9 3.2

True Mēsha-samkrānti, then, by the Siddhānta-Širōmani, occurred on Tuesday, April 11th,

A.D. 1899, at 0 9 3 3.2 after mean sunrise.

Line 18 from top.-For 101d 0h 22m read 101d 0h 9m.

Line 19 from top .- For 217d 17h 11m read 217d 16h 58m.

Line 21 from top.—For 578d 17h 40m read 578d 17h 27m.

Line 24 from top.—For 17h 11m read 16h 58m, and for 17h 40m read 17h 27m.

The present volume contains a number of articles separately published from time to time in the pages of the Epigraphia Indica and forming a continuation of my former work on the same subject—Indian Chronography, 1—which itself was supplementary to The Indian Calendar (Sewell and S. B. Dikshit) issued in 1896. At the end is reproduced, by the kind permission of the Council of the Royal Asiatic Society, a treatise with Tables by the late Dr. J. F. Fleet dealing with the planet Saturn.

The Tables in Indian Ohronography having been numbered in continuation of those in The Indian Calendar, and the Tables contained in the Epigraphia Indian as well as the paragraphs of the texts having been similarly numbered in continuation of those in Indian Chronography, it is considered advisable, rather than start afresh here with new numbers, to adhere to the original design; and so to prevent confusion and to avoid giving trouble to those workers who may have become habituated to the use of the older books and of the sets of Tables as originally published.

There appears to be no necessity to describe over again in this volume the whole chronological and calendrical system of the Hindus, nor the particular method adopted in this and in the former works. Full explanation has been given in those volumes. Our method is the method called the a, b, a system of Largeteau, with which Professor Jacobi of Bonn made us familiar, and with which students of the subject must by now have become well acquainted. It is based on measurement by division of the great circle into ten-thousand parts, and has the great advantage of being applicable to both time and space. It is described in Indian Chronography (§§ 19A-26, pp. 7-9).

Results of greater accuracy than heretofore can be obtained by the use of the Tables here presented, since the figures are given with four decimal places instead of as previously in whole numbers, and so give us planetary positions correct to a quarter of a second whether of space or time. The time-unit of the Indian Calendar is 4½ minutes; that of Rao Bahadur L. D. Swamikannu Pillai's Indian Chronology is about 14 minutes. Very correct results can also be obtained by Professor Jacobi's Special Tables published in Vol. I of the Epigraphia Indica, but as these are stated in degrees, minutes and seconds they are a little troublesome to convert into time-reckoning.

The processes to be followed in computing the details of a date by the Tables are in each case explained in the Examples given at the end of the several articles. It is only necessary to work by these and to be careful to use the proper Tables. The most detailed set of examples is that which is included in the article on "The First Ārya-Siddhānta—true system"; and any student of the subject who is not thoroughly acquainted with our method of calculation (when using the apparent motion of sun and moon) is recommended to go through these carefully before he embarks on computation by the other astronomical authorities of India. The manner of fixing the mean places of the sun and moon at any moment is described in the articles devoted to The First Ārya-Siddhānta and Brahma-Siddhānta mean systems.

Several General Tables applicable to all the Siddhantas have been taken from The Indian Calendar and Indian Chronography. These are required in order to fix the day of the month and week-day according to the European calendar, as well as for other purposes. Most of them

Messrs, George Allen & Unwin, Ruskin House, Museum Street, Bloom-bury, London, W. C. (1912).

Messrs. Swan Sonnenschein & Co. The Indian Calendar (1896) was followed by Relipse of the Moon in India (1898) published by the same Firm; now Messrs. George Allen & Unwin.

are included amongst the Tables which deal with the First Ārya-Siddhāuta—"true" system. Such are Tables LXII, LXVIII, LXIX, LXX (to which a supplement has now been added by Tables XCIVA-F at the end of the volume), and LXXI. This assists the worker to complete all necessary calculations without having to refer to any other volume.

The Tables now published enable dates to be verified according to the requirements of the First Ārya-Siddhānta (mean motions of sun and moon) from A.D. 500 to 1400, and (true or apparent motions) from A.D. 900 to 1900; by the Brahma-Siddhānta (mean motions) from A.D. 600 to 1400, and (true motions) from A.D. 600 to 1200; and by the Siddhānta-Sirōmani (true motions) from A.D. 1100 to 1900.

These Tables, coupled with those for the Sarya-Siddhanta given in the Indian Calendar and in Rao Bahadur L. D. Swamikannu Pillai's Indian Chronology, cover the whole ground as yet possible to explore.

The Indian Astronomical authorities.

The earliest available information as to the study of astronomy in India is obtained from the Vedānga Jyātisha, the character of which is, however, mostly astrological. Here, as well as in the Brāhmavas mention is made of the most ancient division of the year into three natural seasons, evidently. Eye those of the Egyptians, agricultural in origin and therefore essentially solar. The Egyptian division was into the three seasons of sowing, growing, and harvest. The three early Indian divisions, each of four months, were Grishma, Varshā, and Hēmanta. This division, being one seemingly of natural origin, and therefore popular, lasted for many centuries. An inscription of a Pallava kingi in South-India at the close of the 5th century A.D. records the date as in the third fortnight of Hēmanta and the 13th day; and similarly with other records of about the same period issued by Kadamba kings² and the Guptas.³

Lunar motions were, of course, carefully observed from the earliest times, and the twelve lunar months were adapted to the solar seasons by the periodical interpolation of a lunar month.

A later solar division of the year was into six double-months, viz. Vasanta (spring), Getshma (summer), Varshā (rains), Šarad (autumn), Hāmanta and Sišira (the cool season).

Later still, when the knowledge of solar astronomy had considerably developed, came the modern division into twelve solar months, with the lunar months adapted by interpolation.

Anciently the lunar months had seasonal names, a list of which is given in the Indian Calendar, p. 24. The modern names of the lunar months are stellar, being derived from the nakshatras.

The 27 wakshatras, or divisions of the ecliptic circle, otherwise "asterisms" or "lunar mansions," are mentioned in the Vedānga, but were not commonly used for recording dates or as essential parts of the daily calendar till about the 10th century A.D.

From about B.C. 300 onwards there was constant communication and traffic, both by sea and land, between India, Persia, and Greece, and the Hindus became acquainted with the principles of Greek, and later on of Roman, astrology and astronomy. Attracted at first by the astrology of the Westerns they were eventually led, after several centuries, to adopt their astronomy also.

Professor Jacobi has called attention to the fact that the twelve signs of the zodiac were not heard of till the time of Firmicus Maternus (A.D. 336); and it was near about A.D. 400 before these were finally accepted as essential parts of the Indian astronomical system, which was based on the astrology of Firmicus and of Paulus Alexandrinus (A.D. 378). Thus it is

The Omgodu (7 Ongole), Nellore District, inscription of Vijaya Skandavarman Pallava. Ep. Ind., XV, 246.
 R.g. Indian Antiquary, VII, 37.
 Kumāragupta, A.D. 431 (Ep. Ind., II, 262 f.).

probable that all the known astronomical works earlier than the First Arya-Siddhānta (A.D. 499), with the exception of the very ancient Vedānga, were composed between (about) A.D. 350 and 500.

Four such works are mentioned in the Paūcha Siddhāntikā of Varāhamihira (c. A.D. 550). They are the Paitāmaha-Siddhānta and the Rāmīka, Paulifa, and "Original" Sūrya-Siddhāntas. Fleet considered that the Paitāmaha-Siddhānta was merely the Jyātisha Vedānga under another name. The elements of none of these four authorities are known and therefore no reliable Tables can be drawn up for calculation according to their requirements. We only come to firm ground at the end of the 5th century A.D.

In A.D. 499 was produced the Āryabhaṭṭya, or First Ārya-Siddhānta, of the astronomer Āryabhaṭa. The elements of his system are well known and are fully dealt with in the section of this volume devoted to that work, so far as they affect the preparation of the almanac.

About a century later was composed the Brahma-Siddhānta of Brahmagupta (A.D. 628), which introduced certain new principles into the Hindu astronomical system, notably the slight but constant shift of the points of the sun's apsis (Hindu astronomy always treats the sun as a planet).

In A.D. 638 or thereabouts Lalla introduced a bēja, or correction, into three of the elements of the Ärya-Siddhäuta.

About A.D. 950 appeared the Muhā Ārya-Siddhānta, called in these volumes "the Second Ārya." S. B. Dikshit thought that it was nowhere in use for a long time; and for that reason it has not been thought necessary to provide general working Tables based on its requirements. Allusion is made in it to another work, the Parāsara Siddhānta, which is not now extant.

Fifty years or so later—the exact date has not been discovered—was composed the "Present" Sūrya-Siddhānta by an author whose name is lost. It has become the most important authority for the preparation of almanaes in large parts of India, and its contents have been made available from several manuscript copies. It is supposed to have come into general use about the beginning of the 12th century A.D., superseding the "Original" Sūrya-Siddhānta in the tracts where the latter had been used.

From about this period therefore there have existed three distinct schools of astronomy in India, namely the Ārya, Brahma, and Saura schools.

The Rējamrigānka (A.D. 1042) was the next important work to appear. It followed the Brahma-Siddhānta, but with certain corrections. No complete copy of it is known to exist, but S. B. Dikshit was convinced that, so far as regards the preparation of the almanac, its results were the same as those obtained by the use of the later and better known Siddhānta-Širāmani.

The Karana-prakāśa, a commentary and guide based on the Ārya-Siddhānta of Āryabhata as corrected by Lalla, was composed in A.D. 1092. It is an authority still used in Central India by the framers of pańchāngs.

In A.D. 1150 Bhāskarāchārya produced his Siddhānta-Širōmaņi. It followed the Brahma school and was adopted as a standard in succession to the Brahma-Siddhānta, whose eleneuts as corrected by the Rājamrigānka, it generally accepted. It differed however in certain respects, and amongst others in its estimate of the rate of shift of the sun's apsidal points; and

¹ Two other Paulisa-Siddhāntas are mentioned by a writer of A.D. 266. The name is derived, so Afberbul tells us, from "Paulus the Greek," otherwise Paulus Alexandrinus.

So called to distinguish it from the "Present" Savya-Siddhauta of about the early 11th centary A.D.

^{*} See note 2, p. 157, Indian Chronography.

in consequence of this it differed in the fixture of the exact moment at the beginning of each solar year when the true sun reached long, 0°, or the moment known as "true Mēsha-samkrānti," marking the true sun's entry into the first zodiacal sign Mēsha.

Vollowing one or other of these schools there have been prepared at different times a number of Karagas, or treatises, for the guidance of those whose duty it has been to prepare local almanaes in all parts of India. And since these authorities differ slightly in their estimates of the laws that govern planetary phenomena it follows that there must be differences between them in the results obtained. There will often, for example, be a difference of one in the number of the tithi associated with (because ending within the limits of) a certain civil day, In intercalary years there will often be a difference of one in the lunar month intercalated or suppressed; and there are cases where by one authority a lunar month was intercalated and another suppressed, while by another there was neither intercalation nor suppression in the year concerned. There are also a number of cases in which the cycle-name of the Jovian cycle of sixty samvatsaras given to a year by one authority is different from that given by another.

Hence it is obvious that if anyone attempts to verify a date, whether for historical or judicial purposes, solely by one of these authorities to the exclusion of others he is liable to arrive at an erroneous conclusion. No one set of Tables, still less any ephemeris, based on the principles of a single authority can be safely used for the settlement of dates of all times and places. The correct course is to test the date by the authority generally believed to have been in use in the tract and at the period to which it apparently belongs, and, if such examination does not yield satisfactory results, then to try it by other possible authorities and systems.

Verification of dates of different periods.

It is of the utmost importance to remember that prior to the middle of the 11th century A.D. dates were, probably in all parts of India, calculated by the mean motions of the sun and moon; and that the same system may have lasted for many years later in some parts. It is only since that it has become the custom to use "true" or apparent solar and lunar motions.

Dates earlier than A.D. 500.

Dates earlier than A.D. 500.

depend for the formation of reliable Tables is the First Arya-Siddhānta, composed in A.D. 499-500. It is almost certain that month and tithi, and for that reason such dates cannot be verified. An approximation, however, is possible, and as a guide to the attainment of this a note of some length will be found at the end of this Preface.

Dates between A.D. 500 and 628 should be computed by the Tables herein given for the First Arya-Siddhanta -mean system, and with the use of pursimanta lunar months, i.e. months beginning with full, and not with new, moon. The Tables are numbered LXXVI to LXXXI.

Dates between A.D. 628 and 1000 must be tested by both the Arya-Siddhānta—mean system and the Brahma-Siddhānta—mean system Tables. These are respectively Tables LXXVI to LXXXI and XC to XCIII. The lunar month system may have been paraimanta, beginning with the next following new moon. The earlier the date is

Some Western Chälnkyan records in the Bellary District of the Madras Presidency seem to prove that the Brahmu-SiddAänta mean system was used till late in the 11th century; certainly one of them carries the practice down to A.D. 1141. This is an inscription of the fourth year of Jagadekamalla II at Sindigeri, Bellary Taluq.

the less likely is it that the amanta system was used. Moreover the paraimanta system is more common in the north than in the south of India.

The Present Sürya-Siddhānta was composed about A.D. 1000, and, as already mentioned,

there were since that time three distinct schools of astronomy in

India—Ārya, Brahma, and Saura—each of which had its devotees. Dates between A.D. 1000 and 1150 should be examined in

turn by the Tables given below for the Ārya and Brahma-Siddhāntas as well as by the Tables for the Sūrya-Siddhānta contained in the Indian Calendar (Tables I to X); testing them first by the mean system and afterwards by the "true" or apparent system.

The Siddhānta Širōmani supplanted the Brahma-Siddhānta at some period subsequent to Dates since A. D. 1150.

A. D. 1150, the date of its composition. Dates therefore subsequent to A.D. 1150 should be examined by the Ārya- and "Sārya-Siddhāntas and the Siddhānta-Sirōmani; in later times solely by "true" solar and lunar motions, but in earlier times by their mean motions also. The Siddhānta-Širōmani Tables are LIV, A and B, to LX. They have been calculated solely by true or apparent planetary motion; but since Bhāskarāchārya, the author of that work, was a follower of the Brahma school the Table prepared for the Brahma-Siddhānta mean system may be used for Siddhānta-Širōmani mean system calculation once the year is known. It is not probable that the mean system was anywhere in use after A.D. 1400. Since A.D. 1150 it may be taken for granted that the lunar month system in Southern India has been amānta and in Northern India pārpimānta.

Some hints.

The mistake generally made by those who, whether for pseudo-historical purposes or in perpetration of a fraud, take upon themselves to invent the details of an imaginary past date, is to enlarge too much. They state not merely a lunar month and tithi, but add a week-day, the number and name of a solar month and day, the name of a nakshatra or yoga and so on, with the idea of creating an impression of great accuracy. And here they trip themselves up. For, the almanacs of years long past having of course disappeared, it would be little less than a miracle if all these details, depending as they do on the exact positions of the sun and moon at a particular moment of time, could be guessed correctly.

But there are other ways by which, sometimes, a stated date may prima facie be judged and condemned, and it will be well to call attention to some of these. A forged date often mentions details which were not in use at the time pointed at, or states the year of an era belonging to a time when that era was never quoted. The following points should be noted and borne in mind by those concerned in arriving at the truth.

The planetary names of the days of the week—the day of the sun, of the moon, etc.—were introduced from Greek astronomy into India not long prior to A.D. 400, the Romans having adopted them for general use from about the year A.D. 200. Fleet treats of this matter in an article in the Journal of the Royal Asiatic Society for 1912 (pp. 1039 ff.), explaining the order of these names from the rules of Paulus Alexandrinus. The earliest known

¹ I have lately published in the Journal of the Royal Axiatic Society a paper containing a critical examination of the dates quoted by the author Merutunga, in his Prabandha Chintamani, a work of professedly historical character, in which the dates—many of them nominally belonging to a time long past—contain a number of the details referred to. The result of the examination goes to shew that at least many of these details were inserted at random, and therefore that no date can be depended upon as genuine. If some parts of a date are manifestly the outcome of the author's imagination, no trust can be put upon any part of it. In every date quoted in the work the name of the nakehatra, which gives the position of the moon in the heavens, is totally wrong, and quite incompatible with the moon's place on the day intended as set forth in the ober details of the date. The author was evidently in no sense an astronomer. He entered details at random and trusted that none of his readers would discover the truth

genuine instance of the use in India of these planetary names is in a Gupta inscription of A.D. 484. The next is a record of date just earlier than A.D. 578. Kielhorn noted two, one from the Nellore District on the cast coast of the Madras Presidency, and one from Banaväši in North Kanara, respectively in A.D. 664 and 692. The practice only became more common after A.D. 900. So that a date professedly earlier than that should, if it mentions the day of the week, be looked upon with suspicion; and, if it should profess to belong to a year earlier than A.D. 400, should be treated as almost certainly fabricated.

The pāraimānta system of naming the lunar months as beginning astronomically with the noment of full moon prevailed over all India in early years; and still does so in the north; while the amānta system, by which the month begins with the succeeding new moon, has succeeded it in the south. The earliest genuine inscription-date known to Kielhorn which was in amānta reckoning belongs to the year A.D. 794, and is contained in the Paithān plates of the Rāshtrakūta king, Govinda III.

The solar sunkrānii—the entrance of the sun into one of the signs of the zodiac—is not known to have been definitely mentioned in any inscription earlier than the 10th century A.D. It is found, however, in a record of one of the Western Ganga kings of the peninsula in A.D. 975. But setting aside the actual mention of a sunkrānii as such, we know for a fact that the solar months, as divisions of time, were used in the Tamil country of the south, in preference to the lanar months, from about A.D. 900 onwards. A record in South Arcot of the Chōla king Parāntaka I,¹ dated in a year corresponding to A.D. 943, mentions the nakshaira, solar month and week-day—"Rēvati, Saturday in Makara." In more modern times the lunar tithi is also stated, but not the lunar month. In the Telugu country after about A.D. 950 the solar months were often named, but they were ancillary to the lunar months which took first place.

The nakshatras, or stellar divisions of the ecliptic, were known in late Vedic times and were used for astrological purposes; but they were not commonly mentioned in dates till about the 10th century, after which their employment became common. The Singhalese Dipavamsa, however, the compilation of which ceased about the middle of the 4th century, mentions the nakshatra in which the moon stood at the time of the anointing of one of the kings of Ceylon. Only one of the Gupta records mentions a nakshatra; this was in A.D. 705, in the reign of Mānadēva.²

The yoga is a purely astrological fixture, and is seldom mentioned in the dates of inscriptions, though doubtless it was held to be of great importance in the matter of ceremonial observances, rites and sacrifices.

The same alsavas of the sixty-year and twelve-year cycles of Jupiter. Dr. Burgess was of opinion that the years of the Jupiter cycle with their individual names were first introduced into the Indian calendar about A.D. 350. Judging from discovered records it would appear that the cycle more commonly used in early years was that consisting of twelve years, named after the twelve lunar months with the prefix Mahā (e.g. Mahā Chaitra, Mahā l'aiśākha), the cycle of sixty samvatsaras being contained in five 12-year cycles. A table showing the working of this arrangement is given in The Indian Calendar (Table XII, p. exxs) and in Indian Chronography (Table XXXII, p. 152). Three Gapta inscriptions of A.D. 475, 482 and 510 fix the dates by the number of the year of the Gapta era and by the 12-year cycle-names "Mahā Vaiśākha," "Mahā Āśvisa," and "Mahā Chaitra" respectively.* From about

No. 559 of Mr. Rangachari's List, Vol. I, South-Accot Epig. Reports, No. 735 of 1905. Epig. Ind., VIII, 261. This is the earliest Chela date that, according to the late Dr. Kielborn, is capable of verification.

No. 494 of Professor Kielhorn's List of inscriptions in Northern India. (Epig. Ind., V., Appendix, p. 69.)
 Kielhorn's Inscriptions of Northern India (Epig. Ind., V). Nos. 451, 453, 456.

A.D. 550 onwards the sixty sadivatsura-names were more generally used. Varāhamihira, who died in A.D. 587, mentions them all. No instance, however, has been as yet met with in a record of date earlier than A.D. 602, and doubt has been expressed whether the name in that case was really intended to be read as being the sadivatsara-name of the year. If this is set aside the earliest instance is in the Aläs plates of the Rāshṭrakāṭa king Govinda II, A.D. 770.

The layno, or the rising on the horizon of a sign of the zodiac, is sometimes noted on a record. Its function is to fix the time of day of the action commemorated to within a space of two hours. Kielhorn states that the earliest instance of its use with which he was acquainted is in an Eastern Chalukyan inscription of King Amma II in the Telugu country, the date of which is A.D. 945. But it is said to have been used in Cambodia at an even earlier date.

It is advisable to take careful note also of the mention of an era in dates of professedly very early times; for it sometimes happens that a document (perhaps a copper-plate title-deed) can be readily recognised as a forgery by reason of the quoted date stating the year of an era belonging to a period when that era had not come into use in the preparation of almanaes. In such cases the following notes will be found useful.

The Māļava-Vikrama era. Up to the present no date has been found which definitely mentions this era earlier than A.D. 436; though one has been brought to light at Bijayagadh in Rajputāna, which has been held to be possibly a genuine date and belonging to this era, and which is as old as A.D. 372.

The Kalachuri-Chēdi era. The oldest known inscription in this era, dated in the year "207," is engraved on the Pārdī (Surat) plates of Dahrasena, the corresponding year being A.D. 456 or 457.

The Saka era. The earliest known date in this era is "Saka 500 expired," or A.D. 578. This is at Bādāmi. In the north the earliest known is dated "Saka 784 expired" or A.D. 862. It was found at Dēōgaḍh in the Central Provinces.

The Kaliyaga ara. The earliest known record which mentions this era is a Chālukyan inscription of King Pulakēšin II found at Aihole, the corresponding year A.D. being A.D. 634-35. The next belongs to the year A.D. 770, and the next to A.D. 866. These are all in the peninsula. In Northern India the earliest known is one of date A.D. 1169, or 1170.

Variation in Hindu practices.

The Tables in this volume are designed for the purpose of enabling workers to obtain the Variation in Hindu practices.

desired result scientifically—that is to say, a result following from calculation based on the elements and postulates of each of the Siddhantas dealt with. Whether these elements and postulates were on all occasions fully and accurately adhered to by the framers of local almanaes is another matter altogether. And again it must never be forgotten that whereas the Tables deal always with the moment of mean sunrise on the civil day concerned, the almanae employed at the time of the composition of the record may have been prepared for the moment of true sunrise at the principal town in the locality. True time also may have been used instead of mean time; and whole numbers alone may have been employed for the necessary calculations, all fractions being omitted. Any one of these things may, in close cases, make a difference of one in the number of the tithi that gave its name to the day, and sometimes also a difference in the name of the lunar month.

An instance of the difference of practice referred to will be found in the following notes made by a scientific writer a hundred and thirty years ago. Henry Cavendish, F.R.S., read a

paper in A.D. 1792 before one of the learned societies of London on the Hindu calendar. It was published in Philosophical Transactions (Vol. 82, p. 383 fl.) and has lately been reproduced with his other essays by the Cambridge University Press in a volume entitled "Scientific papers." The author had been carrying on a correspondence with Mr. Charles Wilkins in India, and had obtained from him three patras (paūchānīgs, almanacs), one from Benares, one from Thānā in the island of Salsette near Bombay, and one from Nadiya, north of Calcutta. As to the second he writes:—"It appears to be a copy of a Benares patra, as it is disposed in the same form as the first, and is adapted to the same latitude and longitude." We learn therefore that the Pañchāng-Brahmans of Thānā did not make any changes in the Benares almanac so as to suit the precise geographical requirements of their own country. They were content, at Bombay, to calculate for sunrise as it befel at Benares.

But another of Cavendish's correspondents, Samuel Davis of Bhāgalpūr; who was in possession of a copy of the Sārya-Siddhānta and had translated part of it, informed him that, whereas in the north of India almanaes were prepared by specially trained men at three centres. Benares, Nadiya and Tirhut, they (the almanaes) were subject to alteration when scattered over the country to different places. These patras, he says, "are annually dispensed throughout the adjacent country. Every Brahmin in charge of a temple, or whose duty it is to announce the time for the observance of religious ceremonies, is farnished with one of these almanaes and, if he be an astronomer, he makes such corrections in it as the lifference of latitude and longitude render necessary." Here then is evidence that at least in some parts of India, if not in all, the local almanae of one tract may have differed slightly from that used in another even in the same year.

Tables F and G in my "Eclipses of the Moon in India" (pp. lt to lv) state the correction from mean to apparent time for every day in the year and for 1700 years past, and also give the apparent ("true") time of the rising and setting of the sun in different latitudes at all seasons of the year. Rao Bahadur L. D. Swamikannu Pillai has given a very elaborate Table of sunrises in his Indian Chronology (Table XIII), occupying 36 pages.

These differences must of course be allowed for before condemning a date as unsound.

When examining a date which states the number of a day of a solar month, as, for instance, "the 12th day of Kanya," it must not be forgotten that there Four distinct rules governing are four distinct rules, observed respectively in Bengal, Orissa, beginning of rolar months. in the Tamil country and in Malabar, for fixing the first civil day of the solar month. These rules are clearly given in the Indian Calendar (p. 12) and in Indian Chronography (§ 43, pp. 18, 19). The operation of these rules depends upon the hour of the day on which the solar samkrauti, that is the entrance of the sun into the zodiacal sign, takes place. If, to take our example as an instance, the Kanya samkranti in the given year was found, in the ordinary course of calculation by any of the Tables, to have occurred more than 18 hours after sunrise on a certain day, then by the Bengal rule the civil day called "Ist Kanya" was the third day later; whereas by the Orissa rule, when the Amli or Vilayati era was in use, the "Ist Kanya" was the same day as that on which the samkranti took place; and by the Tamil rule it was the next day. Hence the day called "12th Kanya" was in one tract two days later than the day so called by the people in another tract. The difference, however, can never be more than two days.

Lastly a word about the intercalation of lunar months when the paraimanta system of numing the months was in force, i.e. the system whereby the month begins at the full moon next previous to the new moon which marks the beginning of the amanta lunar month. It will be seen from the Indian Calendar (§§ 45-49, and Table, p. 26) that there has existed more than one system of naming the halves, or fortnights, of intercalated, paraimanta months. It is not

necessary to reproduce here all the articles and Table relating to the subject, but merely to call attention to it.

Note on calculation in N. India in A.D. 1792.

It may be as well to note one or two interesting points in the essay by Henry Cavendish referred to above and written in 1792. He makes it clear that the almanacs of that day at Benares were prepared by the Sarya-Siddhanta, while, so it may be inferred, those framed at Pondicherry followed the Arya-Siddhanta. This of course was to be expected.

Analyzing a Benares patra of 1792 Cavendish states that the true solar year "began, according to the principles delivered in the Sūrya-Siddhānta, on April 9 at 22^h 14^m after midnight of their first meridian, which is about 41^m of time west of Calcutta"; and adds: "But according to Mr. Gentil's account of the Indian astronomy it began 3^h 24^m earlier."

M. Le Gentil went to Poudicheri in 1769 to study the transit of Venus and stayed there nearly two years, employing his time in acquiring a general knowledge of Hindu astronomy.

By the Sarya-Siddhanta (Indian Calendar, Table I, p. sec, col. 17a) the moment of beginning of the true solar year on "the first meridian," i.e. on the longitude of Ujjain, was, in A.D. 1792, at 16h 12m after mean sunrise on 9 April, i.e. at 22h 12m after the previous midnight. Mr. Swamikannu Pillai (Indian Chronology, Table X, p. 120) quotes the moment as "9 April '6747," or 16h 11m 34s 08. Thus the difference between us and the Benares patra is only 2 minutes.

Now M. Le Gentil's account made the year begin, so says Cavendish, 3^h 24^m earlier. I suspect that "3^h" is a mistake, either by Le Gentil or Cavendish or the printers, for 2^h. For as a fact according to the Ārya-Siddhānta—the authority generally used in South-India—the solar year corresponding to A.D. 1792-93 began 13^h 50^m after mean sunrise (Table I, Indian Calendar, or Table LXI below); or 2^h 24^m earlier than it did by the Sārya-Siddhānta if we accept Cavendish's figure for the latter as 16^h 14^m.

Cavendish proceeds to describe the divisions of the year solar and lunar, the tithi, the lunar months, and their intercalations; and he notes a difference of practice between Benares and Nadiya. As to the former he writes: -" The civil day begins at sunrise The civil year is luni-solar, consisting of 12 lunar months with an intercalary month inserted between them occasionally. It [the luni-solar year] begins the day after the new moon next before the beginning of the solar year . . . Moreover, in the years which have an intercalary month, this [intercalary] month begins at the day after the new moon; but notwithstanding this the ordinary civil month begins at the day after the full moon. To make their method more intelligible I will call the time from new moon to new moon the natural month. The civil month Visākha begins at the day after the full moon of that natural month which commences at the beginning of the civil year, or, in other words, at the day after the full moon of that natural month during which the sun enters the first Hindoo sign A consequence of this way of counting the months is that the first half of Chitra falls in one year, and the latter half in the following year In these almanacs no notice is taken of solar months which seems to shew that in the countries which use the Benares patra it is not customary to date by the solar month.

"In those parts of India which use the Nadeca patra the case is quite different. This almanac contains the names of the solar and lunar month... The lunar months begin, not at the full, as in the Benares patra, but at the new moon, and are called by the name of that solar month which ends during the course of them; for example the lunar month during which the solar month Visākha ends, is called Chandra (or lunar) Visākha, so that each month begins a fort-

¹The moridian of Ujjain is 12° 33' west of Calcutta, the time-difference being actually 50° 32°.

night later than by the Benares patra. Mr. Wilkins informs me that the Hindoos of Bengal, in all their common transactions, date according to solar time and use what is commonly called the Bengal em, but in the correspondence of the Brahmins, dating books, and regulating feasts and fasts they generally use the teethee [tithi]."

It appears therefore that the paraimānta system of lunar months obtained in A.D. 1792 at Benares, while at Nadiya in the same year the system was amānta. This should not be forgotten when dealing with the old dates of these countries.

The computation of dates earlier than A.D. 500.

It has been stated above that prior to the appearance of the Aryabhatiya or First Arya-Siddhaata of Aryabhata (A.D. 499), though it is known that several astronomical treatises had been composed, their leading principles and postulates have not been brought to light, and therefore that no reliable Tables can be prepared for the purpose of calculation of a date by any of them. How then are we to proceed when desirous of examining a date belonging to such an early period?

It seems useless to attempt more than an approximation for two reasons. The first is that—since it is almost certain that no detail will, if the date be genuine, be mentioned other than the year of one of the eras and the lunar month and tithi, the actual day cannot be verified; and the second is that, even if it could be verified, there is no historical or other reason why any particular trouble should be taken in that direction. The information will enable us to state the year A.D. and the time of year within, probably, a month. That will surely suffice. If a number of other details are given the document must be looked on with suspicion, as before remarked.

But the following hints may be found of use to those engaged in the decipherment of such records.

If no era is mentioned all mere guessing is useless, and the period when the inscription or document was engraved or written can only be learned from the characters. Such a date must be entrusted to a skilled paleographist.

When the year of an era is definitely stated it can be converted into the corresponding European year by aid of the notes, a-f, which follow, but with the reservation that it cannot, perhaps, be definitely stated whether the quoted year was a solar year, or a luni-solar year, and if the latter whether it began with the month Chaitra or some previous month such as Karttika or Asvina.

- (a) The Kaleyuya ora. It is most unlikely that the year of the Kaliyuya will be found quoted in a date earlier than A D. 5 0, but should it be so it is necessary to remember that, by reason of the length of one solar year being differently estimated by different authorities, the same year may not always have borne the same Kaliyuya number. According to the Vedāiga Jyōtisha and the Paitāmaha-Siddhānta the solar year consisted of 366 days; the Rōmaka made it 365d 5h 55m 12s; the Pauliša 365d 6h 12m is; while the Original Sārya-Siddhānta and the other two Pauliša-Siddhāntas mentioned by Varāhamihira estimated it at 365d 6h 12m 36s. Thus by the year A.D. 500 the number of the year of the Kaliyuya according to the Jyōtisha would have fallen seven years earlier than the same year calculated by the rules of Āryabhaṭa. "K.Y. 3600" by the Ārya would be K.Y. 3593 or thereabouts by the Jyōtisha rule. The same year, K.Y. 3600 began by the Komāka 42 days earlier than it did by the Ārya; by the Pauliša it began 30 hours earlier; and by the Original Sārya and the other two Paulišas it began 6 hours later.
- (b) The Majava-Vikrama era. To convert a year of this era into a year A.D., deduct 57 from the number quoted. Chaitradi Vikrama 428 expired=A.D. 371-72. For years B.C., or

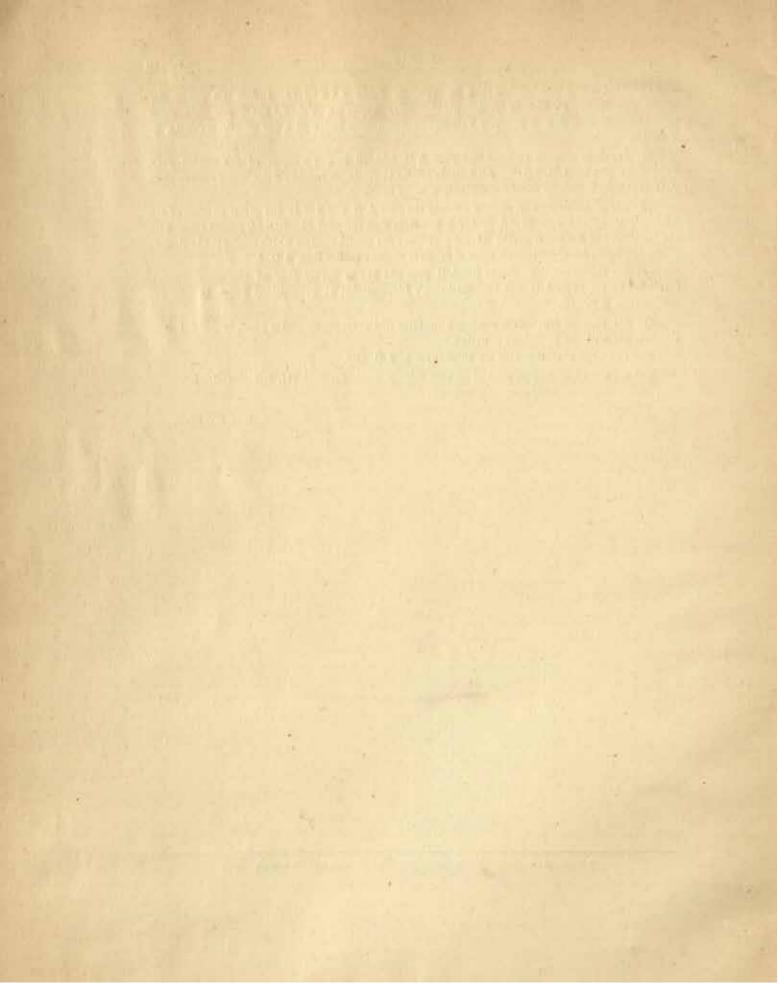
Only one record is at present known to exist of earlier date than A.D. 500 which mentions more than the mouth and tithi. This is the Eran pillar inscription of Budbagupta, and it includes the name of a week-day; enabling Prof. Kielhoun to fix the date as 21 June A.D. 484 (Epig. Ind., V. App., p. 64, No. 454).

- a Vikrama year of number less than 58, refer to Table XXXVIIIA, *Indian Chronography*, p. 160. In Kielhorn's List in *Epigraphia Indica*, Appendix, Vol. V,¹ there are only three records earlier than A.D. 500. The Vikrama year generally began with the month Ashādha or Kārttika.
- (c) The Saka era. To obtain the year A.D. add 78 to the number of the quoted year. Saka 223 expired=A.D. 301-2. All records known to Kielhorn bearing Saka dates earlier than A.D. 500 were found, on careful examination, to be spurious.
- (d) The Kalachuri-Chēdi era. To obtain the year A.D. add 247 to the given number of the year. Kal. Ch. 252 expired=A.D. 499-500. Note that the Kalachuri-Chēdi year begins with the beginning of the lunar month Āśvina preceding the month Chaitra which marks the beginning of the Chaitradi year. Kielhorn notes eight such records earlier than A.D. 500.
- (e) The Gupta era. To obtain the A.D. year add 319 to the number of the year quoted, Chaitradi Gupta 129=A.D. 448-49. Kielhorn's List contains 21 inscriptions dated in this era earlier than A.D. 500.
- (f) The Valabhi era. This was a continuation of the Gupta era. Its years begin, not with Chailra, but with the preceding Karttika.

The epochs of the other eras are subsequent to A.D. 500.

For a Table of correspondence of all eras refer to Table II. Part III, Indian Calendar,

R. SEWELL.



THE CYCLE OF JUPITER.

AND

THE NAMES OF THE SAMVATSARAS APPLIED TO HINDU SOLAR YEARS

(Previously published in Epigraphia Indica, Vol. XIII, pp. 61—103.)

Introductory.

199. In my "Indian Chronography" (pp. 46-65 and Tables XXVII to XXXI A) I have shewn how the exact beginning and ending of a Jovian year can be ascertained, according to the various astronomical authorities in use in India, from K. Y. 3117 (A.D. 16-17) to 5133 (A.D. 2032-33). These calculations were made, as regards the motion of Jupiter, by the mean sign system, that is to say, by conceiving the length of each samvatsara as being the time occupied by the planet in passing by his mean motion through one sign, or 30°, of the Hindu zodiac; and they were made as regards the solar year by determining the number of days and decimals of a day by which each samvatsara began after apparent Měsha-samkránti! in each solar year. In the single case of the Original Sūrya-Siddhānta, however, (Tables XXX and XXX A) the computation was made with reference to the moment of mean Měsha-samkránti; for the reason that it is almost certain that during the whole period of its use the Hindu calculators worked entirely on the mean system.

200. Since the publication of the Indian Chronography I have examined a large number of dates of Indian inscriptions, and have come across many cases where the name of the given samvatsara does not exactly accord with the solar year with which it should be connected according to rule framed with apparent Mēsha-samkrānti as the guiding-point. Sometimes this may be due to mere accident; sometimes it may arise from the use of the name of the samvatsara current at the moment of the action commemorated by the record instead of that of the samvatsara current at Mēsha-samkrānti of the current year. But it is certain that at least up to the time of Śripati (about A.D. 1040) and probably for a long time afterwards the Hindu calculators based their determination of the Jovian samvatsara current at Mēsha-samkrānti (and, therefore, according to custom giving its name to the entire solar year) not with reference to the apparent but to the mean Mēsha-samkrānti; and this would often cause the solar year to be called by a different Jovian cycle-name. The late Sankara Balkrishna Dikshit hinted (Indian Calendar, p. 28) that possibly this practice lasted till as late as the 15th century.

201. My tables in the Indian Chronography were intended to enable the beginning and ending time of a samvatsara to be calculated by time measured from a known point, and since Table I of the Indian Calendar stated that point (apparent Mēsha-samkrānti) in each year it was obviously most simple to use that point. The tables were not framed to serve as a guide to the Jovian name to be correctly applied to each solar year, though that could be gathered from them with a little trouble and care.

202. It is evident, however, that we can only be secure in our acceptance of, or rejection as irregular of, an inscription-date, if, besides the tables calculated by the apparent Mēsha-samkrānti, we have others calculated by the mean Mēsha-samkrānti; and furthermore have at hand a table containing the Jovian cycle-name properly (i.e. by Hindu rule) connected with each solar year with reference to both apparent and mean Mēsha-samkrānti, and by all the Hindu Siddhāntas, i.e. such a table as will shew at a glance whether a cycle-name is properly applicable to a particular solar year by any system or by any known Hindu authority. This then is the work partly done in the present paper.

^{&#}x27;The Mesha-samkranti point marks the first moment, or beginning, of each solar year.

203. Before explaining the method of preparation and the use of the tables which follow a few remarks may not be considered out of place.

204. As mentioned below, the late Mr. S. Balkrishna Dikshit expressed the opinion that the Second Arya-Siddhanta, whose date is believed to be about A.D. 950, was in no part of India in use for a long time. The Siddhanta which has obtained most general acceptance, except in the south, is the Present Surya-Siddhanta, which dates perhaps from about A.D. 1000, and which in parts was corrected by the author of the Makaranda in A.D. 1478. My table XLII (below) shows all the years in which suppressions of Jovian samvatsaras took place according to each authority. These suppressions are marked with asterisks. Now it will be apparent to anyone using that table that in this respect the results afforded by calculation from the elements of the Second Arya-Siddhanta are much nearer to those of the Present Surya-Siddhanta with the correction (bija) than to results obtained by the use of any other authority. The position of Jupiter, that is, as calculated by the Second Arya differed considerably from that calculated by the Sarga-Siddhanta until the Hinda astronomer in the 15th century introduced the correction to the latter's elements; after which the two come much closer together. If, therefore, the corrected Surya-Siddhanta is really the most accurate authority, we must hold that at least in the matter of the motion of Jupiter the Second Arya-Siddhanta was unworthily dealt with and received scant justice.

205. Although the Second Ārya-Siddhāuta seems to have been in use for a very short time I was induced to continue the calculations according to its elements through the whole period of over 1,400 years embraced in the general Table XLII below, partly in order to call attention to this peculiarity.

206. In ordinary cases it would suffice, when once the moment of beginning of a sativatsara had been calculated with reference to apparent Mesha-samkranti, merely to add to it the
time-difference or sodhya, between apparent and mean Mesha-samkranti in order to arrive at
the moment of its beginning with reference to mean Mesha-samkranti; and in ordinary cases
the four decimal points given in my tables would suffice. But in order that there may be no
mistake in very close cases I have worked the whole of these tables by nine places of decimals.

One instance, and that a very interesting and instructive one, will shew how important it is
that this should be done, especially with reference to the information afforded by Table XLII.

207. Note the year K. Y. 3710, A.D. 609-10, in which No. 1 Prabhava of a cycle began, according to the First Arya-Siddhanta and as tabulated for four decimals of a day, 169-440 days after mean Mesha-samkrinti (Table XXIX B below). We see that during that cycle 41 Playanga was suppressed because it both began and ended within the limits of the solar year A.D. 649-50. Turning to the complementary Table XXIX A of the Indian Chronography we see that 41 Playanga began in its year 169 4400 days prior to the time when No. 1 Prabhava began in its year which means that in A.D. 649 it began precisely at the moment of mean Mesha samkranti. Was it or was it not suppressed? Did it begin after or before that moment? If before, it was current at that moment and gave its name to the year; if later, it both began and ended within the limits of the solar year, and did not give its name to the year. Calculation by nine decimals settles the question. I Prabhava in A.D. 649-50 really began 169-439979088 days after mean Mesha-samkranti and 41 Plavanga began 169-439978320 days earlier than No. 1 Frabhava. So 41 Plavanga actually began 0 000000768d or 066 of a second after the moment of mean Mesha-samkranti. Consequently it began and ended within the solar year; it was not current at mean Mesha-samkranti, and on that basis did not give its name to the year; it was suppressed. But if it had begun a tenth of a second earlier it would have besn current at the critical instant and the solar year would have been named after it. I am confident that the Hindu framers of panchangs would have insisted on the year A.D. 649-50

being named after 40 Parabhava even though that samvatsara expired less than a tenth of a second after the beginning of the year and 41 Plavanga was current from that instant till shortly before its close. The rule was strict as to the naming of the year according to actual currency at Mēsha-samkrānti, and it would have been adhered to.

208. We have yet to learn, and our knowledge can only come from careful and painstaking research and study of a large number of inscription-dates, how far the practice of naming a solar year after a Jovian samvatsara was extended to the luni-solar year in those parts of India where such reckoning was used, and when such extension took place. In the Indian Calendar (§ 57, p. 33) it was noted that evidence exists to shew that such a practice was followed, at least for a time in some tracts; and the system adopted would doubtless be similar to that obtaining in the case of the solar year, but applied to the luni-solar year; that is to say, the year would be called after the name of the samvatsara current at the moment of beginning of the luni-solar year, or at the exact moment when, at the time of the new moon at the end of the lunar month Phalguna, the longitude of the moon's centre coincided with that of the sun. This moment always takes place earlier than the moment of the solar Mesha-samkranti, and of course the Jovian name thus given to the luni-solar year might be one different from that given to the solar year with which it was mostly connected. Careful calculation as to the arc travelled by Jupiter between the moment of beginnings of the luni-solar and solar year would have to be made by the framers of luni-solar panchangs for each year separately, in order to find the appropriate samvatsara whose name the luni-solar year was to bear. This cannot be determined by any general table. In such a system no expunction of a samvatsara can take place except in a luni-solar year which has an intercalary month, since the luni-solar common year is in length roughly seven days less than the samvatsara.

209. I begin Table XLII from the year A.D. 490 when a cycle began, and not from an earlier date, because at present the earliest certain date yet found in India which contains the sainvatsara-name of a year belongs to the Sth century A.D. Scholars are not quite clear about the Chalukya inscription of A.D. 602 (see *Indian Chronography*, p. 3). It seems useless to begin from an earlier date.

210. The present Tables XXVII B to XXXI E supplement the work of Tables XXVII to XXXI A published in *Indian Chronography*, and enable the beginning and ending time of a Jovian samvatsara to be ascertained by any of the principal Indian Siddhāntas, when calculation is made on the basis of mean Mesha-samkranti.

211. The present Table XXVII B follows the Present Sūrya-Siddhīnta without the blja (or correction introduced in A.D. 1478) on the basis of mean Mēsha-samkrānti, Table XXVII of Indian Chronography being calculated by apparent Mēsha-samkrānti; and Table XXVII B is to be used with Table XXVII A just as is Table XXVII. The rule is given in § 146, p. 51, and examples in § 147, and (pp. 117-120) "Examples" 48 to 52.

The present Table XXVIII B is calculated for mean Mesha-samkranti according to the Present Sarya-Siddhanta with the bija, and is to be used with Table XXVIII A, Indiaa Chronography, just as is Table XXVIII in that work for apparent Mesha-samkranti.

Similarly the present Table XXIX B is for mean Mesha-samkranti by the First Arya-Siddhanta or Āryabhattya, and is to be used with Table XXIX A, Indian Chronography.

And the present Table XXXI B is for mean Mesha-samkranti by the Brakma-Siddhanta and the Siddhanta-Siremani, and is to be used with Table XXXI A, Indian Chronography.

Explanation is fully given in Indian Chronography (pp. 52 to 62), and the work is shewn in Examples 53 to 60.

The present Tables XXXI C, D and E are similarly prepared according to the Second Arya-Siddhanta, C for apparent, E for mean Mesha-samkranti, D being common to both.

212. Table XLII shews at a glance (the numbers in columns 3 to 13 referring to the list at the right side) for every year from A.D. 490-91 to 1915-16 what Jovian name would be given to each solar year according to the Hindu rule of naming the year by the samvatsara actually current at Mösha-samkränti; and this by all the authorities, and both by apparent and mean Mösha-samkränti. It will be found very useful in testing the accuracy of dates given in inscriptions found in tracts which, as in the north, carried on from year to year the practice of naming the year after the actual astronomical position of Jupiter.

213. Thus, to give an example, suppose we have a date given in a record in the year K. Y. 4606 or Saka 1427 expired (=A.D. 1505-6). Table XLII shews us at a glance that that solar year was called "Angiras" according to the Sūrya-Siddhānta without the bija whether on a basis of apparent or mean Mēsha-samkrānti, by the Sūrya-Siddhānta with the bija also on either base, and (if they had been in use) also by the Original Sūrya on a mean base, and by the Second Ārya-Siddhānta on either base; whereas according to the First Ārya-Siddhānta on either base, or according to the Brahma-Siddhānta and Siddhānta-Širōmani on either base the name of the year was "Šrīmukha."

CYCLE OF JUPITER. ELEMENTS ON BASIS OF MEAN MESHA-SAMKRANTI.

Table XXVII B. By the Surya-Siddhanta without the bija.

214. [Calculation on the basis of apparent Mesha-samkranti is fully explained in Indian Chronography, pp. 49-51.] At the epoch of the Kaliyaga, or in K. Y. 0 expired, B.C. 3102-1, the samvatsara 26 Nandana ended and 27 Vijaya began exactly at the moment of mean Mesha-samkranti, Jupiter being then assumed to be precisely in long, 0°. Since Vijaya ended before the end of the solar year it was suppressed, and did not give its name to any year. From the end of 26 Nandana 34 samvatsaras passed before the moment of beginning of 1 Prabhava of the next cycle. Using the letters of the List of elements of this Siddhanta on p. 49, Indian Chronography,1 we calculate the interval between the end of 26 Nandana and the beginning of 1 Prabhava by the formula E-(F×34). (E) 365-258756481 days-(F×34) 143.889205368 days=221.369551113 days. This is the time after mean Mēsha-samkrānti of K. Y. 33, B.C 3069-8, when 1 Prabhava began, Between this 1 Prabhaya and the 1 Prabhaya of K. Y. 3117 there were exactly 52 whole samvatsara cycles. I × 52=5789-504726772 days. E × 16=5844 140103703 days. (This is a multiple of the length in days of one solar year.) Deduct the latter from the former, and add 221:369551113 days (the beginning time of 1 Prabhava of K. Y. 33), and the result is 166.73417418? days. At this distance of time, therefore, after mean Mesha-samkranti No. 1 Prabhava began in K. Y. 3117, A.D. 16-17. Calculation for the following cycles follows in order by adding for each the element " I."

^{1 &}quot; D" is the length of one samvatears of Jupiter.

[&]quot;E" is the length of the sidereal solar year.

[&]quot; F" = E - D, or the difference between E and D.

[&]quot; Il "- this difference for an entire cycle, or, F x 60.

[&]quot; I " - E - H, or additive difference for beginnings of successive cycles.

Table XXVIII B. By the Surya-Siddhauta with the bija.

215. [Calculation on the basis of apparent Mēsha-samkrānti is explained in Indian Chronography, pp. 52-53.] Although the blja, or correction, was not introduced till A.D. 1478 still, since it involved the change in some respects of the elements of the Siddhānta (compare the Lists, pp. 49 and 52, Indian Chronography), calculation had to be made afresh from the epoch of the Kaliyuga, K. Y. 0 expired. At the moment of mean Mēsha-samkrānti in that year 26 Nandama ended and 27 Vijaya began. Vijaya was suppressed (kshaya) in that year. Using the elements at the top of p. 53, Ind. Chron., we find E—(F × 34)=221-639172313 days. This is the time measured from mean Mēsha-samkrānti, when 1 Prabhava began in K. Y. 33, B.C. 3069-68. From the beginning of this Prabhava to the beginning of the 1 Prabhava in K. Y. 4540, A.D. 1439-40, there were exactly 76 cycles of samvatsaras. "I" × 76=8497-744791036 days. E × 23 (a multiple of the solar year length)=8400-951399063 days. Deduct the latter from the former and add 221-639172313 days as above, and the result is 318-432564286 days. In K. Y. 4540, A.D. 1439-40, therefore, 1 Prabhava-began 318-4326 days after mean Mēsha-samkrānti. For the beginning-moment of each successive cycle we add the element "I," or 111-812431461 days.

Table XXIX B. By the First Arya-Siddhanta or Aryabhatiya.

216. [For method of calculation on the basis of apparent Mesha-samkranti see Indian Chronography, pp. 53-55.] At the epoch of the Kaliyuga 26 Nandana is assumed to have ended, and 27 Vijaya to have begun, precisely at the moment of mean Mesha-samkranti. The year was K. Y. 0, A.D. 3102-1. Vijaya was suppressed. We use the same formula as before, viz. E—(F × 34), to find the number of days by which 1 Prabhava began after mean Mesha-samkranti in K. Y. 33. E=365-258680555 days; F×34=144-023981572 days. Result 221-234698983 days. There were exactly 52 cycles between this Prabhava and the Prabhava which began in K. Y. 3117, A.D. 16-17. We therefore add the above result to ("I"×52) and deduct a multiple of the solar-year length, i.e. (E×16). ("I"×52)=5777-133079900. Adding for the beginning of Prabhava 221-234698983 we have 5995-367778883. Deduct (E×16) or 5844-138888880, and the remainder is 154-228890003. This is the number of days by which 1 Prabhava began after mean Mesha-samkranti in K. Y. 3117, A.D. 16. The calculation begins regularly from that figure, adding the value of "I" for each cycle.

Table XXXI B. By the Brahma-Siddhanta and Siddhanta-Siromani.

217. [For method of calculation on the basis of apparent Mesha-sankranti see Indian Chronography, pp. 58-62.] It has already been determined (see Indian Chronography, p. 59, § 165) that in K. Y. O Jupiter reached long. 0° 6:49836 days after mean Mesha-sankranti. At that moment 27 Vijaya began and 26 Nandana ended. In the following year, K. Y. 1 expired, 28 Jaya began ("F" =) 4:2384:0044 days earlier in the year than 27 Vijaya. Hence in that year 28 Jaya began 2:259929956 days after mean Mesha-sankranti, and as intended about 361 days later ("D") it ended before the end of the solar year and was suppressed not giving its name to any year. To find the beginning-moment of the No. 1 Prabhava

of the next cycle we add as before E-(F × 34) to the ending-moment of 16 Nandana as found above.

E= 365.258437500 days

(F × 34)=-144·106621496 do.

221-151816004 do.

+ 6.498360000 do.

227-650176004 do.

Therefore 1 Prabhava began 227-650176004 days after mean Měsha-samkránti in the year K. Y. 33, B.C. 3069-68.

Add this to " I " \times 52, and deduct a multiple of the solar year length, or E \times 16, and we have the datum for K, Y, 3117, A.D. 16-17.

153:052188724

This last is the number of days by which I Prabhava began in that year after mean Mēsha-samkrānti.

From that moment we proceed regularly as before, adding the cycle difference "I" for each cycle.

CALGULATION BY THE SECOND ARTA-SIDDHANTA ON BASIS OF (i) APPARENT, (ii) MEAN MESHA-SAMERANTI.

218. (Cancelled.)

219. The date of the Second or Mahā Ārya-Siddhānta is believed to be about A.D. 950; and according to the opinion of the late Mr. Sankara Balkrishna Dikshit, it does not seem to have been anywhere in use for a long time. It was, however, known to Bhāskarāchārya in A.D. 1150 and such being the case I have considered it advisable to prepare the Tables for the whole period covered by the other tables referred to. Though this is certainly useless for later years it is dangerous to draw a line and it is best to be on the safe side, as we know as yet neither the tract where this Siddhānta was used nor the date when its use ceased. As regards the sainvatsaras of Jupiter this Siddhānta could never have been received as an authority in the South of India because there the astronomically calculated succession of sainvatsaras, in the matter of the application of their names to the solar years, was neglected after the year A.D. 906; every year being afterwards scrially connected with the name of a sainvatsara without regard to any suppression. The presumption is that the use of the Second Ārya-Siddhanta was confined to the north, or at least to those tracts where suppressions of sainvatsaras were attended to.

Table XXXIC. Apparent Mēsha-samkrānti as basis.

220. The process of calculation for Table XXXIC is as follows:-

According to the Second Arya Siddhānta the position of Jupiter at the moment of mean Mēsha-samkrānti in K. Y. 0 expired or 1 current, that is to say at the epoch of the Kaliyuga era or the moment of mean sunrise on Friday, 18, B. C. 3102, was 357°7′12′1 (Indian Chronography, p. 63). Jupiter did not reach the point 0° till he had travelled 2° 52′48′1 of arc. Calculating by his mean motion this journey occupied 34d. 15 h. 45 m. or 34′65624537 days (Table XXXIV). He reached long, 0° therefore at that length of time after the moment of mean Mēsha-samkrānti, and when he reached it the samvatsara 27 Vijaya began. The time-interval between mean and apparent Mēsha-samkrānti in K. Y. 0, i.e. the interval which we call the "södhya", was determined by Dr. Schram (op. cit. p. 16) as 2·171973 days or 2·171972 days after calculation by two separate methods, the results shewing a minute difference of 0·09 of a second. I have halved this difference, and calculated with a södhya of 2·1719725 days, or 2d. 4h. 7m. 38·424s. Jupiter therefore reached long, 0°, 26 Nandana ended, and 27 Vijaya began, (34·65624537 + 2·1719725 days=) 36·82821787 days, or (34d. 15h. 45m. + 2d. 4t.7m, 38·424s. =) 36d. 19h. 52m. 38·424s. after apparent Mēsha-samkrānti in K. Y. 0 expired.

221. Next has to be ascertained the moment of beginning of the first samvatsara "I Prabhava" of the next 60-samvatsara cycle. This occurred after the expiration of exactly 34 samvatsaras counting from the end of 26 Nandana. The length of the solar year is (E1=) 365·258690278 days. The annual difference between the lengths of the solar year and samvatsara is (F =)4·231719473 days. This last multiplied by 34 is 143·878462082 days E—(F × 34)= 221·380228196 days. This, added to the number of days by which 26 Nandana ended after apparent Mēsha-samkrānti (viz.:36·82821787 days, as found above, para. 220) gives us 258·208446066 days. I Prabhava therefore began 258·208446066 days after apparent Mēsha-samkrānti in the year K. Y. 33 expired or B. C. 3069-68. The reason why the solar year was not K. Y. 34 expired is because in K. Y. 8 expired, B. C. 3094·93, the samvatsara 35 Plava was expunged,

222. To arrive at the exact beginning of the "1 Prabhava" which began in A.D. 16-71, between which year and the year K. Y. 33 expired or B.C. 3069-68 there were exactly 52 complete cycles of samvatsaras, element "I" must be first calculated. This is the difference in the beginning-time of the samvatsara No. 1 Prabhava at the beginning of successive 60-year cycles. The annual difference being (F=) 4-231719473 days, F×60 is 253-903168380 days. Deduct this from the year-length "E" given above, and the remainder is the value of "I", viz. 111-355521898 days. 52 of these cycle-differences ("I" × 52) amount to 5730-487138696 days. To this must be added the time by which the 1 Prabhava began after Mēsha-samkrānti in K. Y. 33 expired, or B.C. 3069-68. This was found to be 258-208446066 days. The total is 6048-695584762 days. Deduct from this a multiple of the solar year-length E, viz. (E×16=) 5844-139044448, and the remainder is 204-556540314 days.

223. No. 1 Prabhava therefore began in A.D. 16-17 or K. Y. 3117 expired 204-556540314 days after apparent Mēsha-samkrānti. From this point the calculation for Table XXXI C is carried regularly forward cycle by cycle the expunged, or kshaya, samvatsaras being duly noted, with the years in which the expunction took place.

224. It has been mentioned that, in the earliest of the cycles which have been dealt with above, the samvatsara 35 Plava was expunged. This occurred in the year K. Y. 8 expired, B.C 3094-3. From 27 Vijaya to 35 Plava is 8 samvatsaras. The annual difference "F"

¹ See the list of elements of this Siddbants on p. 63, Indian Chronography, and feetnote above p. 4.

multiplied by 8 is 33:85:3755784 days. Vijaya was found to have begun 36:828217870 days after apparent Mesha-sankranti in its solar year. Deducting from this 33:853755784 days, etc.: the 8-years collective difference, the remainder is 2:974462086 days. 35 Plava, therefore, began at that length of time after apparent Mesha-sankranti in K. Y. 8 expired or B.C. 3094-3; and since the length of a sanvatsara is only 361 odd days, it is evident that Plava ended before the expiry of the 365‡ days of the solar year. It has been necessary to work out this point since, if there had been no expunction in the cycle in question, the year connected with 1 Prabhava of the following cycle would not have been, as it is, K. Y. 33 but K. Y. 34 expired.

[For the sake of conformity with the similar Tables for the other Siddhantas (Tables XXVII to XXXI A, Indian Chronography) I have calculated the sodhya as it has been determined by Dr. Schram for K. Y. 0, viz.; 2:1719725 days, leaving it to workers to make the very slight alteration necessary (if a very close case should be discovered) to get perfect accuracy for the century concerned. Dr. Schram's results will be found in Indian Chronography, p. 16. The sodhya in K. Y. 0 was 2:171972 days, in K. Y. 3000 was 2:172707 days, in K. Y. 4000 was 2:172952 days and in K. Y. 5000 was 2:173197 days. Having found by my Tables the beginning-time of a samvatsara, if greater accuracy is necessary, deduct from the result after K. Y. 36 (0, fairly in proportion to the 2000 years' interval, an amount varying from 0:0007 to 0:0012, * from 1m. 2s. to 1m, 46s. This last is the greatest possible difference.]

Table XXXI D.

Table XXXI D is to be used, for Second Arya-Siddhānta computation just as Table XXVII A (Indian Chronography) is used for computation by the Surya-Siddhānta without the bija.

Table XXXI E. Mean Mesha-samkranti as basis.

225. The method of work for finding the beginning of the samvatsara I Prabhava in the year A.D. 16-17, K. Y. 3117 expired, on the basis of reference to mean instead of to apparent Mēsha-samkrānti, could be explained in exactly the same way as has been already done in the latter case; but it is unnecessary to go into such full details a second time. It suffices to say for a beginning, that with reference to mean Mēsha-samkrānti in the year K. Y. 0 expired or at the epoch of the Kaliyuga era it has been shewn that the samvatsara 26 Nandana ended, and 27 Vijaya began 34:656245370 days after that moment. We work from this point. 8 samvatsaras later 35 Plava began (F × 8) 33:853755784 days earlier than did 27 Vijaya. Deducting the latter from the former figure we find that in the solar year K. Y. 8 expired, B.C. 3069-8 35 Plava began 0:802489586 days after mean Mēsha-samkrānti, and therefore ended before the end of the solar year. It was a kshaya, or suppressed, samvatsara. Hence, as before so here, the I Prabhava of the next cycle began in K. Y. 33 and not in K. Y. 34 expired.

226. No. 27 Vijaya began in K. Y. 0 expired 34:656245370 days after mean Mēsha-samkrānti. "E"— ("F"×34)=221:380228196 days. (\$221 above.)

Add these. Then 1 Prabhava in K. Y. 33, B.C. 3069-8, began 256-036473566 days after mean Mesha-sankranti. Add this to "I" × 52 which=5790-487138696. Result 6046-523612262 days. Deduct "E" × 16 (a multiple of the solar year length) or 5844-139044448 days and we arrive at 202-384567814 days, which is the number of days by which 1 Prabhava of the cycle began after mean Mesha-sankranti in K. Y. 3117, A.D. 16-17.

This is tabulated as 202:3846 days, and so in succession.

E

Time-corrections.

227. Calculation by Tables XXXI C and D, or E and D will enable us to ascertain the moment of beginning and ending of any sainvatsura by the Second Ārya-Siddhānta with reference to any Mēsha-sainkrānti moment, true or mean; but, as in the case of the Original Sūrya-Siddhānta, Brahma-Siddhānta and Siddhānta-Širōmani, we must, if we use the Indian Calendar Table I, for giving us the time of occurrence of Mēsha-sainkrānti each year (cols. 13 to 17 for the First Ārya-Siddhānta) apply a correction in order to get at the exact time of Mēsha-sainkrānti by the Second Ārya-Siddhānta because the length of the year fixed by the First Ārya differed slightly from that fixed by the Second Ārya-Siddhānta. The two started from the same point, viz.: the sunrise epoch of the Kaliyuga, or mean sunrise on Feb. 18 B.C. 3.02, but according to the Second Ārya the year is 0.84s, longer than the First Ārya year (Ind. Chronography, p. 158, col. 3). Hence the following Table must be used:—

TABLE A A.

DIFFERENCE BETWEEN THE MOMENTS OF MEAN MESHA-SAMKRENTI AS CALCULATED BY (1) THE FIRST ARYA-SIDDHANTA, (2) THE SECOND ARYA-SIDDHANTA, THE TWO HAVING BEEN TOGETHER IN K. Y. O, B.C. 3102.

Having found from Table I, cols. 13 to 17, etc. [by adding the fixed sodhya (see §§ 206, 228) to the apparent Mēsha-sankrānti] the moment of mean Mēsha-sankrānti by the First Ārya-Siddhānta, add the time difference given in this Table for every expired year of the K. Y. in order to obtain the same by the Second Ārya-Siddhānta.

Differ- ence in years.	Time difference,	Differ- ence in years.	Time difference,	Differ- ence in years,	Time difference.	Differ- ence in years.	Time difference.	
1	2	1	2	1	2	1	2	
1 2 3 4 5 6 7 8 9	H. M. S. 0.84 1.68 2.52 3.36 4.20 5.04 5.88 6.72 7.56	10 20 30 40 50 60 70 80 90	H. M. 8. - 8'40 - 16'80 - 25'20 - 33'60 - 42'' - 50'40 - 58'80 - 1 7'20 - 1 15'60	100 200 300 400 500 600 700 800 900	H. M. 8. - 1 24 - 2 48 - 4 12 - 5 36 - 7 0 - 8 24 - 9 48 - 11 12 - 12 36	1000 2000 3060 4000 5000	H. M. S. - 14 0 - 28 0 - 42 0 - 56 0 1 10 0	

N.B.—To obtain exact time of apparent Mesha-samkranti by the First Arga-Siddhanta add 30s. to the time given in Table I, col. 17 of the Indian Calendar in years A. D. whose number is odd; but not in those whose number is even. See Indian Chromography "Hints for workers," No. 20, p. 79.

228. Again, to fix the exact moment of apparent Mösha-samkränti by the Second Arya-Siddhānta we have to note that according to it the śödbya, or time-difference between mean and apparent Mösha-samkräntis varies slightly year by year, whereas the éödbya by the First Arya-Siddhānta is a constant; so that we must for absolute accuracy in Second Arya-Siddhānta time, take note of this varying difference.

Dr. Schram has fixed its value for us (see Indian Chronography, 139 D, p. 16) at different millenniums thus—

TABLE B B.
SECOND ĀBYA-SIDDHĀNTA SÖDHYA.

K. Y.	Christian	Exact value of sôdhya					
expired.	year.	as fixed by Dr. Schram.					
3000 4000 5000	B.C. 103-02 A.D. 899-900 A.D. 1899-1900	d. 2 2 2 2	h. 4 4 4	m. 8 9	8. 41.88 3.05 24.22		

It will be seen that for all ordinary purposes it will suffice to use a constant 2d. 4b. 9m.; but for very close work take the \$5dhya-value at K. Y. 3601, A. D. 500, as being 2d. 4b. 8m. 54-582s, and add for every succeeding 100 years 2.117s, and for 1000 years 21.168s.

RULE FOR WORK AND EXAMPLE.

229. All work formerly necessary for the purpose of ascertaining which Jovian samvatsara began in the course of any given year according to any of the principal Siddhāntas, and whether calculated by apparent or mean Mēsha-samkrānti, is now obviated by the information given in Table XLII below, which solves the question at a glance. It shows the samvatsara current at every Mēsha-samkrānti, and we therefore know that the next samvatsara of the cycle began during the year. When there is an asterisk shown it means that this latter samvatsara both began and ended during the solar year, so that the next again also began during that year and was current at Mēsha-samkrānti of next year.

230. But we sometimes desire to know the time of beginning and ending of a samvatsara in order to ascertain whether it was current at the time of the event or action chronicled in an inscription.

231. This time is precisely the same whether we calculate from mean or from apparent Mösha-sachkränti; and as the time of these is clearly given in the general working Tables LX, LXI, LXXVI, LXXXII, XC, and as, for the Second Ārya-Siddhānta it can be gathered from cols. 13 to 17 or 17a of the Indian Calendar, it is easiest to use that information as basis of work. Find this required time, therefore, according to the Sūrya-Siddhānta (with or without the bija), the First Ārya or Āryabhatīya, the Original Sūrya, and Brahma-Siddhāntas, and the Siddhānta-Sirōmani in the manner described in §§ 146, 147, 153, 158, 162 or 167 A and examples 48 to 59 A of Indian Chronography, or from the general working Tables below.

232. The work according to the Second Arya-Siddhānta is precisely similar, but we have to use the Tables A A and B B in the text above instead of any of the other Tables in the text of Indian Chronography. I proceed with an example.

233. We want to know what samvatsara began in K. Y. 4380 expired, A. D. 1279-80 according to the Second Arya-Siddhanta. The answer is given by Table XLII below. 18 Tarana was current both at apparent and mean Mesha-samkrantis, and therefore in either case gave its name to the solar year; 19 Parthiva began in the course of the year.

When did Parthiva begin? and when did it end?

For rough work the following will always suffice, whether we have been calculating by mean or apparent Mesha-samkranti, the time being the same by both. We will work by apparent Mēsha-samkrānti. Table XXXI C below shews that in the cycle concerned I Prabhava began 351 days after Mēsha-samkrānti, and Table XXXI D shews that in its year 19 Pārthiva began 76 days earlier than did I Prabhava; so 19 Pārthiva began (351—76) 275 days after apparent Mēsha-samkrānti in the given year. We find the time of apparent Mēsha-samkrānti in that year from the Indian Calendar Table I or Table LXI below, i.e. according to the First Ārya-Siddhānta, on March 25 on day 84 (Table IX Ind. Cal. or LXIX below) at about 21 hours after mean sunrise. Call this day 85.1 Table AA shews the time-difference between the two Siddhāntas, for the 4380 years since K. Y. 0, as being about one hour. This may be ignored. 19 Pārthiva began 275 days later. 275+85=360, i.e. (Table IX, Ind. Cal. or LXIX below) 19 Pārthiva began on December 26, A.D. 1279. This suffices for a rough solution of the problem.

For close work we must calculate more carefully. I give here the closest possible according to our available Tables, following the course prescribed above. For the beginning of 19 Parthiva (Table XXXI C and D below) we have 351.4704-76.1710=275.2994=(Table XXXVI, Ind. Chron.) 275d. 7h. 11m. 8:16s. after apparent Mēsha-samkrānti.

Apparent Mësha-samkranti by the First Ārya-Siddhānta (Table LXI below) was on day 84 at 20h. 57m. 30s. after mean sunrise.

The difference in the śōdhya interval between mean and apparent Mēsha-samkrānti has to be taken into account. The First Ārya-Siddhānta fixed this interval as always 2d. 3h. 32m. 30s. But according to the Second Ārya it varies slightly. (See above, Table BB, § 228, and accompanying remarks.) The given K. Y. year is 4380. In K. Y. 4000 it was 2d. 4h. 9m. 3.05s. Add for (say) 400 years 8.47s., at the rate of 2.117s. per 100 years, and we have the śōdhya in the given year by the Second Ārya-Siddhānta as 2d. 4h. 9m. 11.52s.

The time-difference between the two authorities (Table AA above, § 227) must also be ascertained. This is, for 4000 years, 56m.; for 300 years, 4m. 12s.; for 80 years, 1m. 7:20s.; total 1h. 1m. 19:20s.

Now we make our calculation.

First Ārya-Siddhānta apparent Mēsha-samkrānti					s. 30
First Ārya-Siddhānta šödhya					30
First Ārya mean Mēsha-sankrānti		87	0	30	0
Time-difference between First and Second Arya-Siddhan	ta				
in K. Y. 4380	244		1	1	19-20
Second Ārya-Siddhānta mean Mēsha-samkrānti	200	87	1	31	19-20
Second Ārya-Siddhānta sodhya					11.52
Apparent Mesha-samkranti by Second Arya-Siddhanta		81	21	22	7.68
19 Parthiva began after this	***	275	7	11	8-16
Time of beginning of 19 Parthiva by the Second A	es//v-	_			
Siddhanta	5.00	360	4	33	15:84

360d.=(Table IX, Indian Calendar, or LXIX below) December 26.

We have found therefore that 19 Pārthiva according to the Second Ārya-Siddhānta, whether based on apparent or mean Mēsha-samkrānti (§ 231 above) began at 4h. 33m. 15-84s. after mean sunrise on December 26, A.D. 1279.

¹ To suit, that is, the European name of the day, which begins six hours before mean sunrise.

TABLE XXVII B.

THE SIXTY-SAMVATSARA CYCLE OF JUPITEE.

Mean-sign system by the Surya-Siddhānta without the sija, calculated with reference to mean Mēsha-samkrānti.

(For all India up to A.D. 906, and for the northern portion alone after and inclusive of that date.)

Year of the Kallynga (expired).	Christian year,	Number of days by which 1 Prabhava begun after mean Mesha- satikrānti.	samvatsaras.	Your of the Kaliynga (expired).	Christian year.	Number of days by which 1 Prabhava began after mean Mesha- samkranti,	sarbyatsaras.
1	2	3	4	1	2	3	6
(0) 33 3117 (3156) 3176 3236 (3241) 3295 (3327) 3354 (3412) 3413 3473 (3497) 3532 (3582) 3591 3651 (3668) 3710 (3753) 3769 3829 (3838) 3888 (3924) 3947 40071	(652-53) 668-69 728-29 (737-38) 787-88 (823-24)	358·1586 104·2364 215·5731 326·9097 72·9876 184·3:42 295·6608 41·7387 153·0753	27 Vijaya. 40 Parābhava. 6 Angiras. 33 Vikārin. 59 Krōdhana. 25 Khara. 51 Pingala. 18 Tāraņa. 44 Sādhāraņa. 10 Dhātri. 37 Šobhana.	4540 (After and XXV are ordina	this date I	he Indian	3 Šukla. 29 Manmatha. 56 Dundubhi. 22 Sarvadhārin 48 Ānanda. 15 Vrisha. 41 Plavanga. VIII B below Chronography 7 Šrīmukha. 33 Vikārin. 60 Kshaya.

¹ In Southern India the expanction of samvatsaras was neglected from, and including, the cycle beginning in A.D. 906.

About A.D. 1500 the bija (correction) was generally introduced, and the beginning moments of the cycles were recalculated from the epoch of the Kallyuga. For years subsequent to A.D. 1500 Tables XXVIII B below and XXVIII A (Indian Chronography) should as a rule be used. But since the bija was not introduced all over India at the same time calculations for three more cycles have been here given according to the Sürya-Siddhäuta without the bija.

TABLE XXVIII B.

THE SIXTY-SAMVATSARA CYCLE OF JUPITER.

Mean-sign system by the Steva-Siddhānta with the віза calculated with reference to mean Mesha-samkrānti.

Year of the Kaliyuga (expired).	Christian year,	Number of days by which I Prabhava began after mean Mesha- sankränti.	Kshaya (expunged) samvatsaras.	Year of the Kaliyuga (expired).	Christian year.	Number of days by which I Prabhava began after mean Mēsha- samkrānti.	
1	2	3	4	1	2	3	. 4
4540 4600 (4615) 4459 (4700) 4718 4778 (4786) 4837	A.D. 1439-40 1499-1500 (1514-15) 1558-59 (1599-1600) 1617-18 1677-78 (1685-86) 1736-37	318-4326 64-9862 176-7987 288-6111 35-1648 146-9772	16 Chitrabhā- nu. 42 Kilaka. 9 Yuvan.	(4871) 4896 4956 (4957) 5015 (5042) 5074 (5128) 5133	A.D. (1770-71) 1795-96 1855-56 (1856-57) 1914-15 (1941-42) 1973-74 (2027-28) 2032-33	258-7896 5-3433 117-1557 228-9682 340-7806	35 Plava. 2 Vibhava. 28 Jaya. 55 Durmati

TABLE XXIX B.

THE SIXTY-SAMVATSARA CYCLE OF JUPITER.

Mean-sign system by the First $\tilde{\mathbf{A}}$ by a-Siddhānta or $\hat{\mathbf{A}}$ by a Hamiltonian Aryabhatiya.

Calculated with reference to mean Mesha-samkranti.

Year of the Kaliyuga (expired).	Christian year,	Number of days by which 1 Prabhava began after mean Mësha- samkranti.	Kshaya (expunged) sanvatsara.	Year of the Kaliyuga (expired).	Christian year.	Number of days by which 1 Prabhava began after mean Mēsha- sankrānti.	Kahaya (expunged) samvatsara.
1	2	3	4	1	2	3	4
(0) 33 3117 (3153) 3176 3236 (3238) 3295 (3323) 3354 (3409) 3443 3473 (3494) 3532 (3579) 3591 3651 (3664) 3710 (3750) 3769 3829 (3835) 3:88 (3220) 3:88 (3220) 3:88 (3220) 3:88 (3220) 3:88	B.C. (3102-01) 3069-68 A.D. 16-17 (52-53) 75-76 135-36 (137-38) 194-95 (222-28) 253-54 (308-09) 311-13 372-73 (393-94) 431-32 (478-79) 490-91 550-51 (562-64) 609-10 (649-50) 668-69 728-29 (734-35) 787-88 (819-20) 846-47 (904-05) 905-06	291-2347 154-2289 265-3276 11-1676 122-2663 233-3-51 344-4638 90-3038 201-4025 312-5012 58-3418 169-4400 280-5387 26-3787 137-4774 248-5762 359-6740	27 Vijaya. 37 Šobhana. 3 Šukla. 29 Manmatha. 56 Dundubhi. 22 Sarvadhārin. 48 Āranda. 14 Vikrama. 41 Plavanga. 7 Šrimukha. 33 Vikārin. 59 Krodhana.	4066 (4090) 4125 (4176) 4184 4244 (4261) 4303 (4346) 4362 4422 (4431) 4481 (4517) 4540 4600 (4602) 4659 (4687) 4718 (4772) 4777 4837 (4857) 4896 (4942) 4955 5015 (5028) 5074 (5118) 5133	A.D. 965-66 (989-90) 1024-25 (1075-76) 1083-84 1143-44 (1160-61) 1202-03 (1245-46) 1261-62 1321-22 (1330-31) 1380-81 (1416-17) 1439-40 1499-1500 (1501-02) 1558-59 (1586-87) 1617-18 (1671-72) 1676-77 1736-37 (1756-57) 1795-96 (1841-42) 1854-55 1914-15 (1927-28) 1973-74 (2012-13) 2032-33	105-5149 216-6136 327-7128 73-5524 184-6511 295-7498 41-5898 152-6885 263-7872 9-6273 120-7260 231-8247 342-9234 88-7634 199-8622 310-9609 56-8609 167-8996 278-9983	25 Khara. 52 Kālayukta 18 Tāraņa. 44 Sādhāraņa 10 Dhātri. 37 Šobhana. 3 Šukla. 29 Manmatha 55 Durmati. 47 Pramādin. 14 Vikrama. 40 Parābhava

TABLE XXXI B.

THE SIXTY-SAMVATSARA CYCLE OF JUPITER.

Mean-sign system by the Brahma-Siddhānta and Siddhānta-Śirōnaņi.

Calculated with reference to mean Mesha-samkranti.

Year of the Kallyuga (expired).	Christian year.	Number of days by which I Prabhava began after mean Měsha- sanskranti.		Year of the Kallyuga (expired).	Christian year.	Number of days by which 1 Prabhava began after mean Měsha- samkränti.	
1	-2	3	4	1	2	3	4
(1) 333 3117 (3153) 3176 3236 (3238) 3255 (3238) 3255 (3408) 3413 3473 (3493) 3532 (3578) 3591 3651 (3664) 3710 (3749) 3769 3829 (3834) 3888 (3919) 3947 (4004) 4006	550-51 (563-64) 609-10 (648-49) 668-69 728-29 (733-34) 787-88 (818-19) 846-47 (903-04)	227.6502 153.0522 264.0048 9.6990 120.6517 231.6043 342.5569 88.2511 199.2038 310.1564 55.8506 166.8032 277.7559 23.4501 134.4027 245.3553 356.3080	28 Jaya. 37 Ŝobhana. 3 Śukla. 29 Manmatha. 55 Durmati. 21 Sarvajit. 47 Pramādin. 14 Vikrama. 40 Parābhava. 6 Angiras. 32 Vilamba. 58 Raktāksha.	4066 (4090) 4125 (4175) 4184 4244 (4260) 4303 (4345) 4362 4422 (4430) 4481 (4515) 4540 1600 (4601) 4659 (4686) 4718 (4771) 4777 4837 (4856) 4896 (4941) 4955 5015 (5027) 5074 (5112) 5133	A.D. 965-66 (989-90) 1024-25 (1074-75) 1083-84 1143-44 (1159-60) 1202-03 (1244-45) 1261-62 1321-22 (1329-30) 1380-81 (1414-15) 1439-10 (1500-01) 1558-59 (1585-86) 1617-18 (1670-71) 1676-77 1736-37 (1755-56) 1795-96 (1840-41) 1854-55 1914-15 (1926-37) 197::-74 (2011-12) 2032-33	102:0022 212:9548 323:9074 69:60.6 180:554:3 291:5069 37:2011 148:1537 259:1064 4:8006 115:7532 226:7058 337:6585 837:6585 83:3527 194:3053 305:2579 50:9521 161:9048 272:8574	25 Khara. 51 Pingala. 17 Subhānu. 43 Saumya. 9 Yuvan. 35 Plava. 2 Vibhava. 28 Jaya. 54 Raudra. 20 Vyaya. 46 Paridhāvin. 13 Pramāthin. 39 Višvāvosu.

TABLE XXXI C.

THE SIXTY-SAMVATSARA CYCLE OF JUPITER.

Mean-sign system by the SECOND ARYA-SIDDHANTA.

Calculated with reference to apparent Mesha-samkranti.

Year of the Kalivuga (exp-red).	Christian year,	Number of days by which I Prabhava began after apparent Mësha- samkranti,	Kshaya (expunged) sathvatssra.	Year of the Kallyuga (expired).	Christian year,	Number of days by which I Prabhava began after apparent Mesha- samkranti.	
1	2	3	4	1	2	- 3	4
(0) (8) 33 3117 (3065) 3176 3236 (3250) 3295 (3335) 3354 3414 (3421) 3473 (3506) 3 32 (3591) 35-1 3651 (3676) 3710 (3762)	B.C. (3102-1) (3094-3) 3069-8 A.D. 16-17 (64-65) 75-76 135-36 (149-50) 194-95 (234-35) 253-54 313-14 (320-21) 372-73 (405-06) 431-32 (490-91) 490-91 550-51 (575-76) 609-10 (661-62)	258:208446 204:5565 315:9121 62:0089 173:3644 284:7199 30:8168 142:1723 253:5278 364:8833 110:9802 222:3357	35 Plava. 49 Rākshasa. 15 Vrisha. 41 Plavanga. 8 Bhāya. 34 Śārvarin. 60 Kshaya. 26 Nandana. 53 Şiddhār-	4007 (4018) 4066 (4103) 4125 4185 (4189) 4244 (4274) 4303 (4359) 4362 4422 (4445) 4481 (4530) 4540 4600 (4615) 4659 (4700) 4718 4778 (4786) 4837 (4871)	A.D. 906-07 (917-18) 965-66 (1002-03) 1024-25 1084-85 (1088-89) 1143-44 (1173-74) 1202-03 (1258-59) 1261-62 1321-22 (1344-45) 1380-81 (1429-30) 1439-40 (1514-15) 1558-59 (1599-1600) 167-18 1677-78 (1685-86) 1736-37 (1770-71)	48·5959 159·9514 271·3070 17·4038 128·7593 240·1148 351·4704 97·5672 208·9227 320·2782 66·3751 177·7306 289·0861 35·1829 146·5385	12 Bahudhān-ya. 38 Krödhin. 5 Prajāpati. 31 Hēmalam-ba. 57 Rudhirod-gārin. 24 Vikrita. 50 Anala. 16 Chitrabhā-nu. 42 Kīlaka.
3769 3829 (3847) 3888	668-69 728-29 (746-47) 787-88	333-6912 79-7880 191-1436	thin.	4896 4956 (4956) 5015 (5042)	1795-96 1855-56 (1855-56) 1914-15 (1941-42)	257-8940 3-9908 115-3463	1 Prabhaya.
3947	(832-33) 846 47	302:4991	46 Paridhāv- in	5074 (5127) 5133	1973-74 (2026-27) 2032-33	226.7019	54 Raudra.

N.B.—This table is based on Dr. Schram's valuation of the sodhyn in K. Y. O. a mean being taken between his two results (see Indian Chronography, p. 16) obtained by different modes of calculation, viz. 2:171973 days and 2:171972 days. It is taken here as 2:1719725 days. The greatest difference between the sodhyn in K. Y. O and that in K. Y. 5:000 amounts to ro more than Im. 461s., or 0:001225 days.

TABLE XXXI D.

THE SIXTY-SANVATSARA CYCLE OF JUPITER.

Mean-sign system by the Second Arya-Siddhanta.

The number of days and decimals less than the day given in Table XXXI C by which each samvatsara began after apparent Mesha-samkranti in its solar year.

			of days.	No.	Samvatsara.			Number of days.
	2		3	1		2		3
Peobleve	-	0,000	0.000	90	77.71	-		101,1006
Vihhava		100			Vilator			131-1833
Śnkla				100000000000000000000000000000000000000			***	135-4150
					A A SHARE THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE	224	***	139-646
		200				***	446	143-878
		1000				1984		148-1102
						1999	111	152-3419
		****				441	22.5	156-5736
MONTH OF THE PARTY	***	# #		90000		***	717	160-8053
	***	***		100		1222	***	165-037
	79.9	***				***	***	169-2688
	244	**5				200	444	173.5003
	***	644			Saumya	334	111	177-7329
Control of the Contro		***		44	Sådhårana	***	***	181-9639
A STATE OF THE PARTY OF THE PAR	100	996		1000,000	Virodhakrit		44.5	186:1957
	***	****		46	Paridhavin	766		190-4274
	***		63.4758	47	Pramadin	***	7.7	194-6591
Subhanu	***	200	67.7075	48	Ānanda		1000000	198-8908
Tarana	443	7000	71.9392	49	Råkshasa		0184	203-1225
Parthiva	***	100000	76-1710	50				207-3543
Vyaya	201	1,050%	80.4027	51			1	211-5860
Sarvaiit		1000		52		1.00	10000	215-8177
Sarvadhārin				1,43,655,01				220-0494
Virodhin				10000				224-2811
		- F/15		1000000			200014	228-5129
				10000			20,544,7	232.7446
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW			THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	100000		***		236-9763
		97.4						241.2080
			114-9564	25.54			1000	245.4397
				15005507		***	***	249-6714
		221		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11.	112	Control of the Contro
				1		the jo	atowing	253.9032
	CONTRACTOR STATE	Prabhava Vibhava Sukla Pramōda Prajāpati Aṅgiras Śrīmukha Bhāva Yuvan Dhātri Īsvara Bahudhānya Pramāthin Vikrama Vrisha Chitrabhānu Subhānu Tāraṇa Pārthiva Vyaya Sarvait Sarvadhārin Virōdhin Vikrita Khara Nandana Vijaya Jaya Manmatha Durmukha	Prabhava Vibhava Sukla Pramōda Prajāpati Aṅgiras Śrīmukha Bhāva Yuvan Dhātri Īsvara Bahudhānya Pramāthin Vikrama Vrisha Chitrabhānu Tāraṇa Pārthiva Vyaya Sarvajit Sarvadhārin Virodhin Vikrita Khara Nandana Vijaya Jaya Manmatha Durmukha	Prabhava 0.000 Vibhava 4.2317 Sukla 8.4634 Pramōda 12.6952 Prajāpati 16.9269 Angiras 21.1586 Śrīmukha 25.3903 Bhāva 29.6220 Yuvan 33.8538 Dhātri 38.9855 Isvara 42.3172 Bahudhānya 46.5489 Pramāthin 50.7806 Vikrama 55.0124 Vrisha 59.2441 Chitrabhānu 67.7075 Tārana 71.9392 Pārthiva 76.1710 Vyaya 80.4027 Sarvajit 84.6344 Sarvadhārin 88.8661 Virodhin 93.0978 Vikņita 97.3295 Khara 101.5613 Nandana 105.7930 Vijaya 110.0247 Jaya 114.2564 Maumatha 118.4881 Durmukha 122.7199 Usmakha	Prabhava 0.000 32 Vibhava 4.2317 33 Sukla 8.4634 34 Pramoda 12.6952 35 Prajāpati 16.9269 36 Angiras 21.1586 37 Šrīmukha 25.3903 38 Bhāva 29.6220 39 Yuvan 33.8538 40 Dhātri 38.0855 41 Isvara 42.3172 42 Bahudhānya 46.5489 43 Pramāthin 50.7806 44 Visha 55.0124 45 Vrisha 55.0124 45 Chitrabhānu 67.7075 48 Tārana 71.9392 49 Pārthiva 76.1710 50 Vyaya 80.4027 51 Sarvajit 84.6344 52 Sarvajit 88.8661 53 Vikņia 97.3295 55 Khara 101.5613 56	Prabhava 0.000 32 Vilamba Vibhava 4.2317 33 Vikārin Šukla 8.4634 34 Sārvarin Pramēda 12.6952 35 Plava Prajāpati 16.9269 36 Šubhakŗit Aṅgtras 21.1586 37 Šobhana Śrimukha 25.3903 38 Krōdhin Bhāva 29.6220 39 Višvāvasu Y uvan 33.8538 40 Parābhava Dhātri 38.0855 41 Plavaṅga Krlaka 42.3172 42 Krlaka Bahudhānya 46.5489 43 Saumya Pramāthin 50.7806 44 Sādhārana Vikrama 55.0124 45 Virodhakrit Visha 63.4758 47 Pramādin Kurama 71.9392 49 Rākshasa Pārthiva 76.1710 50 Anala Vyaya 88.661 53 Siddhārthin<	Prabhava 0.000 32 Vilamba Yibhava 4.2317 33 Vikārin Sukla 8.4634 34 Sārvarin <td< td=""><td>Prabhava 0 000 32 Vilamba Yibhava 4 2317 33 Yikārin Sukla 8 4634 34 Sārvarin Pramoda 12 6952 35 Plava Prajāpati 16 9269 36 Subhakrit Angiras 21 1556 37 Sobhana Srīmukha 25 3903 38 Krōdhin Bhāva 29 6220 39 Viévāvasu Yuvan 33 8588 40 Parābhava Phatri 38 0855 41 Plavanga Isvara 42 3172 42 Kīlaka Bahudhānya 46 5489 43 Saumya Pramāthin 50 7806 44 Sādhāraņa Vikrama 55 0124 45 Virodhakrit Vrisha 59 2441 46 Paridhāvin Chitrabhānu 63 4758 47 Pramādin Subhānu 67 7075 48 Ānanda Vayas 80 4027 51 Piāg</td></td<>	Prabhava 0 000 32 Vilamba Yibhava 4 2317 33 Yikārin Sukla 8 4634 34 Sārvarin Pramoda 12 6952 35 Plava Prajāpati 16 9269 36 Subhakrit Angiras 21 1556 37 Sobhana Srīmukha 25 3903 38 Krōdhin Bhāva 29 6220 39 Viévāvasu Yuvan 33 8588 40 Parābhava Phatri 38 0855 41 Plavanga Isvara 42 3172 42 Kīlaka Bahudhānya 46 5489 43 Saumya Pramāthin 50 7806 44 Sādhāraņa Vikrama 55 0124 45 Virodhakrit Vrisha 59 2441 46 Paridhāvin Chitrabhānu 63 4758 47 Pramādin Subhānu 67 7075 48 Ānanda Vayas 80 4027 51 Piāg

TABLE XXXI E.

THE SIXTY-SAMVATSARA CYCLE OF JUPITEE.

Mean-sign system by the SECOND ARYA-SIDDHANTA.

Calculated with reference to mean Mesha-samkranti.

Year of the Kaliyuga (expired).	Christian year.	Number of days by which it Prabhava began after mean Měsha- samkránti.		Year of the Kaliyuga (expired).	Christian	Number of days by which 1 Prabhavi began after mean Měsha- samkránti.	
1	2	3	4	1	2	3	4
	2000			1		-	-
100	B.C.		100000	DOSESTIONS OF	A.D.		-10012 -510
(0)	(3102-1)			(4103)	(1002-03)		38 Krödhin.
(8)	(3094-3)	***	35 Playa,	4125	1024-25	269-1350	
33	3069-68	256.3802		4185	1084-85	15.2318	THE STATE OF THE S
3117	A.D.	200 20/4		(4188)	(1087-88)		4 Pramoda.
District Control of the Control of t	1-17	202-3846	40 f	4244	1143-44	126-5873	
(3064) 3176	(63-64)	010 -101	48 Ånanda.	(4273)	(1172-73)		30 Durmukh
3236	75-76 135-36	313-7401		4303	1202-03	237-9429	222.15 285 2
(3250)	(149-50)	50-8369	15 Vrishn.	(4359)	(1258-59)	***	57 Rudhirod
3295	194-95	171-1924	19 v Fishin.	4362	1261-62	210.2001	garir
(3335)	(284-35)	171 1024	41 Plavanga.	4422	1321-22	349-2984	
3354	253-54	282-5480	TALL invanga.	(4444)	(1343-44)	95-3952	23 Virodhin.
3414	313-14	28:6448		4481	1380-81	206.7507	23 Viradhin.
3420)	(319-20)	20 175 20	7 Śrimukha.	(4529)	(1428-29)	200.1901	49 Rāks hasa.
3473	372-73	140.0003	V. Collinson	4540	1439-40	318-1063	TO REAL BRANCH
3506)	(405-05)		34 Śarvarin.	4600	1499-1500	64.2031	10
3532	431-32	251.3558	1 S. C. Store B. C	(4615)	(1514-15)		6 Chitabhā-
3591)	(490-91)	164	60 Kshaya.	8	ACTUAL STATE	9.00	ni ni
3591	490-91	362-7114		1659	1558-59	175:5586	
3651	550-51	108-8082		(4700)	(1599-1600)	210.0000	42 Kilaka.
(3676)	(575 76)	140	26 Nandana.	4718	1617-18	286.9141	Company of the Compan
3710	609-10	220-1637	THE RESERVE OF THE PARTY OF THE	4778	1677-78	33-0110	
(3762)	(661-62)		53 Siddharthin.	Sandan .	10 mm m		
3769	668-69	331:5192		(4785)	(1684-85)	25 T 44 T	8 Bhava.
3829	728-29	77:6161	A COMPANY OF THE PARTY OF THE P	4837	1736-37	144:3665	
3888	(746-47)		19 Parthiva.	Clark	-		
3932)	787-88 (831-32)	188-9716	40 371 - 31 1 1	(4871)	(1770-71)		35 Playa.
3947	846-47	000.0071	45 Virodhakrit.	4896	1795-96	255.7220	
0041	040-47	800-3271		4956	1855-56	1.8188	
4007	906-07	46-4239		(4956)	(1055 EC)		***
(4017)	(916-17)		11 Īšvara.	5015	(1855-56) 1914-15	120.1	1 Prabhava.
4066	965-66	157-7795	A PERSONAL PROPERTY.	0040	4019-10	113-1744	

To determine the beginning and ending times of a samuatsara use this Table with Table XXXID. For södhya see foot of Table XXXIC.

TABLE XLII.

The Jovian name of each Hindu Calendar year according to the different Siddhantas and systems of calculation.

TABLE XLIL.

An asterisk shees when an expanction of a sameatsara occurs, and when, therefore, the following sameatsara does not give its name to the next solar year "S."=Siddhanta; "M. S."=Mēsha-samkrānti; numbers in columns 3 to 13 refer to the List of Names of the Jovian samualsaras on THE JOYIAN NAME OF EACH HINDU CALENDAR TEAR ACCORDING TO THE DIFFERENT SIDDHANTAS AND SYSTEMS OF CALCULATION.

the right.

Names of the Sixty antivatestras of the cycle of Jupiter.			. ಪ್ರಕ್ರಿಪ್	ස් ලේක ස් ස්	11. Isvara. 12. Bahudhānya. 13. Pramāthin. 14. Vikrama. 15. Vṛisha.	16. Chitrabhanu, 17. Subhanu, 18. Tarapa, 19. Parthiva, 20. Vyaya.
GED G	SECOND ARYA- S.	Mean M. S.	13	13 11 18 19	នតនានាត	នគ្គក្នុង
SAMYATSARA CONNECTED DIAR YEAR ACCORDING RAL SIDDHÁNTAS, BY TRS CURRENCY AT T, OR AT MEAN,	-	Apparent	알	55786	ន្ឋមន្ត្រម	នន្តមន្តន
VATSARA GONNECT YEAR ACCORDIN SIDDHANTAS, BY CURREENCY AT R AT MEAN, KRANTIL	BRAICHA- S. AND S. SIRÖ.	M. S.	=	55755	ន្ឋមាន	22223
ENG ENG MEA	S. S.	Apparent M. S.	92	22122	ខ្មខ្មខ្មខ្ម	ន្ទន្ទន្ទន្ទ
MYATSARA CO IR YEAR ACCO IL SIDDHÁNTA ES CURRENCY OR AT MEAN	ORIG. S. AYRUS.	Mean M. S.	0	1281181	82382	88288
NATA SE	187	M. S.	00	22780	ខ្មខ្មខ្មខ្ម	82228
E SA SOLA EERA F INT,	First Arra- S.	Apparent A. S. M.	i-	12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	ខ្មខ្មខ្ម	88288
MBER OF THE SAMVATSAR, VITH EACH SOLAR YEAR TO THE SEVERAL SIDDHA REASON OF ITS CURREN APPARENT, OR AT M MESHA-SAMKRANTI	4 11 4	Mean Mean	9	11111	1111	11111
AASHE	Schya- S, with plia.	Apparent M. S.	10	11111	11111	4 14 14
NUMBER WITH TO T RE	14	M. S. Mean	-	55788	82382	22222
NON W	SCRYA- S. NO nUA.	Apparent M. S.	80	22222	ខ្លួននេះ	88588
	Year A.D.		ot	505.06 506.07 507.08 508.09 509.10	510-11 511-12 512-13 513-14	515-16 516-17 517-18 518-19
-u3:	at of Kaliyu	Expired ye	-	3606 3607 3608 3609 3610	3612 3612 3613 3614 3615	3616 3617 3619 3619 3620
0	CA-	Mean M. S.	13	\$-00.04	00-00	22222
BY	SECOND ARYA- S.	Apparent R. S. M.	23	9-00-	00000	22222
ONN SORI AS,		W S. M	=	8-01004	20100	22222
AO CANDENNA CENNA	S. AND S. Smö.	Apparent M. S.	10	8-004	00400	22227
IVATSARA CONNECTEI YEAR ACCORDING SIDDHANTAS, BY CURRENCY AT R AT MEAN,	S AYROS	Mean M. S.	6	8-004	00-00	32333
2	1	Mean Mean	œ	8-0004	201-00	22222
S SA SOLA ERA F FF VT, C	Finst Anya. S.	Apparent A	t-	8-01004	002-80	22222
H SEV	2E.	M. S.	9	11111	11111	11111
MBER OF THE SAMY WITH EACH SOLAR TO THE SEVERAL REASON OF ITS APPARENT, OR	Sönya. S. with niba.	Apparent M. S.	10	11111	11111	11111
TO THE		N. S.	+	8-0100+	08480	22222
NUMBER OF THE SAM WITH EACH SOLAR TO THE SEVERAL REASON OF ITS APPARENT, OI	SCRYA. S. NO BITA.	Apparent M. S.	60	0-484	1001-80	22222
	Xear A.D.	Justicuty	01	490.91 491.92 492.93 493.94 494.95	495.96 496.97 497.98 498.99 499.500	500-01 501-02 502-63 503-04
-e3:	ogian to 100	Expired ye	-	3591 3592 3594 3594 3594	3596 3597 3599 3599 3600	3602 3602 3603 3604 3606

_						-		
	21. Sarvajit. 22. Sarvadhārin. 23. Virodhim. 24. Vikrita. 25. Khara.	26. Nandana. 27. Vijaya. 28. Jaya. 29. Manmatha. 30. Durmukha.	31. Hēmalamba. 32. Vilamba. 33. Vikārin. 34. Sārvarin. 35. Plava.	36. Subhakrit. 37. Sobhana. 38. Kródhin. 39 Visvávnau. 40. Parübhaya.	41, Plavanga. 42, Kilaka. 43, Saumya. 44, Sādhārana. 45, Virôdhakrit.	46. Paridhāvin. 47. Pramādin. 48. Ananda. 49. Rāksbasa. 50. Anala.	51. Pingala. 52. Kilayukta. 53. Siddhárthin. 54. Raudra. 55. Durmati.	56. Dandubhi. 57. Rudhrödgärin. 58. Raktāksha. 59. Krödhana. 60. Kshaya.
13	22222	52 12 13 13 13 13 13 13 13 13 13 13 13 13 13	ខ្មខ្មខ្មខ្ម	92888	22223	82888	43844	82888
15	31322	12 11 12 12 12 12 12 12 12 12 12 12 12 1	ខ្លួនខ្លួន	888998	28828	58833	25324	84 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86
=	22222	82828	ឧដ្ឋឧដ្ឋ	88828	58888	28883	48848	34343
10	22222	30 118 10 119 10 119	ឧននេន	82888	22222	82888	25523	84848
0	22227	82122	28828	82888	22222	22223	23323	55 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
8	22222	81818	2312122	88828	23223	458833 458833	2552	54 44 65 50 49 45
F-	22222	81218	នាននង	86855	22222	82889	44444	84888
9	11111	11111	11111	11111	11110	11111	11111	11111
10	11111	11111	11111	11111	11111	11111	11111	11111
9	51557	20 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	ដដូននេះន	22222	22222	88888	25522	55855
02	31554	221.68	តនានាគង	828828	22222	£2883	23323	84868
C4	560-61 561-62 562-63 563-64 564-65	565-66 566-67 567-68 568-69 569-70	570-71 571-72 572-73 573-74 574-75	575-76 576-77 577-78 578-79 579-80	580-81 581-82 582-83 583-84 584-85	585-86 586-87 587-88 588-89 589-90	590.91 591.92 693.94 594.95	595-96 596-97 597-98 598-99 599-600
-	3662 3662 3663 3664 3665	3666 3667 3668 3669 3670	3671 3672 3673 3674 3675	3676 3678 3678 3670 3680	3681 3682 3684 3684 3684	3687 3689 3689 3689 3690	3691 3692 3693 3694 3695	3696 3697 3698 3699 3700
13	82222	38 33 38 38	32333	33736	82222	22222	8-0164	00000
12	22222	38 33 38	34444	55556	82553	2821282	8-0004	10101-100
=	82882	38 33 35 35	32332	55585	82884	282288	3-0124	00000
10	82822	28288	32333	55585	82322	22222	8-0004	00000
0	82882	28388	34334	22529	22322	555155	8-2104	00000
oc	82222	38338	32332	33234	82882	88288	8-0100+	001-00
7	82882	88388	34332	28484	82222	88288	8-00-	00000
9	11111	ÍHH	11111	11111	11111	11111	11111	11::1
10	11111	11111	11111	11111	11111	11111	11111	11111
*	82822	22222	82332	58588	22222	28 21 22 22 23 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	8-0104	800-00
00	82822	28488	84444	22523	82883	55 57 55 55 55 55 55 55 55 55 55 55 55 5	8-01014	00-00
51	520.23 522.23 523.23 523.23 523.23 523.23 523.23 523.23 523.23	525-26 526-27 527-28 528-20 529-30	530-31 531-32 532-33 533-34 534-35	535.36 537.38 538.39 539.40	540-41 541-42 542-43 544-45	545-46 540-47 547-48 548-49 549-50	550-51 551-52 752-53 553-54 554-55	555-56 556-57 567-58 558-59 559-80
-	3622 3622 3624 3624 3625	3626 3627 3629 3629 3630	3631 3632 3633 3634 3634	3636 3638 3638 3639 3640	3641 3643 3643 3644 3645	3646 3647 3648 3649 3650	3652 3652 3653 3653 3654 3655	3656 3657 3658 3650 3060

TABLE XLII-contd.

Names of the Sixty safavatsaras of the cycle of Jupiter.				1. Prabhava. 2. Yihhava. 3. Sukla. 4. Pranāda. 5. Prajāpati.	6. Angiras. 7. Srimukha. 8. Bhāva. 9. Yuvan.	11. Evara. 12. Bahudhinya. 13. Pennistha. 14. Viterana.	16. Chitrabhinu. 17. Subhanu. 18. Tarapa. 19. Parthiva. 20. Vyaya.
O. C.	SECOND ARYA- S.	Mean Mean	22	22222	118 128	58835	88888
NNEC RDING S, BY AT	-	Apparent M. S.	23	25555	82222	22222	22222
SAMVATSARA CONNECTED LAR YEAR ACCORDING RAL SIDDHÄNTAS, BY ITS CURRENCY AT VI. OR AT MEAN,	BRAHMA- S. AND S. SIRÖ.	M. S.	п	23272	82828	28822	888888
RA HAN GENC MIEA	S S S S	W S W	10	22242	81818	SERES	82888
VATSARA CO YEAR ACCO SIDDHÁNYA CURRENCY R AT MEAN.	S AYROS	M. S. M.	0	25545	27868	222222	82888
NAN AR	53	M. S. M.	90	22222	22222	28822	822888
E SU SOLUTER VER. VER. VER. SENT SHAS	Foust Anya.	Apparent A. S.	ţ=	22222	82228	28828	88888
OF THE SANVATSARA CO EACH SOLAR YEAR ACCO HE SEVERAL SIDDHANTA ASON OF TIS CURRENCY APPARENT, OR AT MEAN MESHA SAMKRANTL	4 1 4	M. S. M.	9	11111	11111	1111	11111
	SCRYA- S. WITH B'JA.	W S W	ic	11111	11111	11111	11111
NUMBER WITH TO T RE	Y4.	M. S.	4	=22249	8128218	สมมาส	88888
NU	SCRYA- S. NO MEA.	Apparent	00	22222	2022	28888	828888
THE FEB.	Year A.D.		01	620.21 621.22 623.24 624.25	625.26 626.27 627.28 628.20 629.30	630-31 631-32 632-33 633-34	635-36 636-37 637-38 638-39 639-40
าเรีย	at of Kaliya	Expired ye	1	3723 3723 3724 3724	3726 3727 3728 3729 3730	3731 3732 3733 3734	3736 3737 3739 3739 3740
G.	OXD A-	M. S. Mean	п	22222	55 55 50 50		50.800
ECT DING BY	Anya.	Apparent A. S. M.	21	12 22 24 25	6585156	-0100+10	100870
OONN CORI CORI CORI N. A.	STA. STD STD STD	M. S.	Ţ.	125225	888838		10 10 11
RA C AO ANT ENC WEAU	BRAIDIA S. AND S. Smö.	Apparent A. S.	10	55.55	888838	-98646	50840
ATSARA CONNECTED YEAR ACCORDING UDDHANTAS, BY CURRENCY AT R. AT MEAN,	Onid. Schya S.	M. S. M. S.	6	22223	658578	- 01 to 4 to	000040
D		Mean Mean	500	25.55.55	82888	-0160410	91.000
ER OF THE SAW THE SEVERAL REASON OF TS APPARENT O MESHA-SAN	Frast Arya. S.	Apparent M. S.	t+	55 55 55 55 55 55 55 55 55 55 55 55 55	888838		#r-##0
SE S	38.3	Mean M. S.	0	11111	11111	11111	100
EAS EAS AP	SCHYA. S. WITH BLA.	Apparent M. S.	14	11111	11111	11111	
NUMBER OF THE SAMY WITH EACH SOLAR YOU THE SEVERAL S REASON OF ITS OF APPARENT, OR MESHA-SAMI	1	M. S. M.	77	55 55 55 55 55 55 55 55 55 55 55 55 55	858858	-10110 +10	00000
NO	Schya. S. No Bla.	Apparent A. S. M. S.	00	E2222	858858		50.880
- 18	h c	1		601.02 602.03 603.04 604.05			
	Year A.D.		01	600 600 604	605-06 606-07 607-08 608-09 609-10	610-11 611-12 612-13 613-14 614-15	615-16 616-17 617-18 618-19 619-20
าหรีย	or Kany	Expired ye	1	3701 3703 3704 3704	3706 3707 3709 3710	3711 3712 3713 3714 3716	3716 3717 3719 3719 3720

	34							3 1
	Sarvajit. Sarbadharin. Virodhin. Vikrita. Kharn.	4 44	n ba	Harrie Harris	Party land	中 中	thin.	Dundubhi, Rudhirodgarin Raktaksha, Krodhana, Kshaya,
	Sarvajit. Sarvajit. Virodhin Vikrita. Khara.	Nandana Vijiya Je Manmatha Durmukha	Hëmalamba Vilamba, Vikarin. Sarvarin. Plava.	Subbakrit. Sobbana. Krodhin. Visvavasu. Parabbaya	Plavańga. Kilaka. Saumya. Sadhāraņa. Virodhakrit	Paridhāvin Pramādin. Ānanda. Rākshasa. Anala.	Pingala. Kālayukta. Siddhārthin Raudra. Durmati.	Dundubhi, Rudhirôdg Raktākeha Krōdhana, Kshaya,
						The state of the s		
_	ត់ដង់ដង់	85888	#####	88.88.9	======================================	37,3,8,8	55,03,00	50.57.5
13	22222	58585	88288	28882	88288	28832	33448	23432
120	55475	12282	88888	22222	38288	######################################	55255	28884,
=	32275	72388	มถสมม	22222	88288	28832	33238	28484
9	22222	28582	สถสถส	22222	88228	£8889	33233	54482
6	55455	28582	នានន្ទន្ទន	28882	22222	28884	33248	58482
00	55755	128882	<u> </u>	28882	22222	28883	33238	58485
1-	55455	18582	ដូននេង	22222	22222	38 39 40 40 40	33233	58482
0	11111	11111	[11]	11111	11111	11111	111);	11111
10	11111	11111	11111	11111	11111	14111	11111	11111
*	22222	18282	នានាងនេង	28882	22222	28884	22222	556 45 45 55 55 55 55 55 55 55 55 55 55 55
60	552455	122221	ลลลลล	28882	38288	28832	55225	55454
	680-81 681-82 682-83 683-84 684-85	686-87 686-87 687-88 688-89 689-90	690-91 691-92 692-93 693-94 694-95	695-96 696-97 697-98 698-99 698-99	700-01 701-02 702-03 703-04	706.06 706.07 707.08 708.09	710-11 711-12 712-13 713-14	715-16 716-17 717-18 718-19 719-20
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Names of the Sixty sativatearss of the cycle of Jupiter.				Prabhava. Vibhava. Sukh. Pramöda. Prapipati.	6. Angiras. 7. Srimukha. 8. Bhāva. 9. Yuvan. 10. Dhātri.	11. Isvara. 12. Baludhanya. 13. Pramāthin. 14. Vikarama. 15. Vriaha.	16. Chitrabhánu. 17. Subhánu. 18. Táraga. 19. Párthiva. 20. Vyaya.
ED	YA-	M. S.	13	55223	28828	822822	88888
MBER OF THE SAWATSABA CONNECTED WITH EACH SOLAB YEAR ACCORDING TO THE SEVERAL SIDDHÄNTAS, BY REASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MESHA-SAMKRÄNTI.	Skoon Anya- S.	Apparent M. S.	22	51245	28888	82882	888888
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-s3n	ear of Kaliy	Expired 30	-	3841 3842 3844 3844	3846 3847 3848 3840 3850	3852 3852 3853 3854 3856	3855 3858 3859 3859 3859
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i o I tumendA I				22222	30,532,50	200000	409837
2.	Year A.D.		01	720-21 721-22 722-23 723-24 724-25	725-26 726-27 727-28 728-29 729-30	730-31 731-32 732-33 733-34 734-35	736-36 736-37 737-38 738-39 739-40

	100							1.
	Sarvajit. Sarvadhārin. Virodhin. Vikrita Khara.	Nandana. Vijaya. Jaya. Manmatha. Durmukha.	Hěmalamba. Vilamba. Vikárin, Sārvarin, Plava.	Subhakrit. Sobhana. Krédhin. Viivāvasu. Parābbava.	Plavanga. Kilaka. Saumya. Sidhiaraya. Virodhakpit.	Paridhāvin, Framādin, Ānanda, Rākshasa, Anala,	Pingala. Kālayukta. Siddhārthin. Raudra. Durmati.	Danduhhi. Rudhirodgarin. Raktāksha. Krōdhina. Kshaya.
	ส่สสสส	สหสสล	# # # # # # # # # # # # # # # # # # #	55.88.0	48448	45448	23223	558.
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27	22225	22828	83885	200000	83888	88343	34,523	28288
=	22225	85858	82822	****	***	88455	44444	23222
10	22221	22828	222222	88888	38333	88233	23878	25222
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1	3901 3903 3904 3905	3906 3907 3909 3910	3912 3913 3914 3915	3916 3917 3918 3919 3920	3922 3922 3924 3924	3926 3927 3830 3830	3932 3932 3933 3934 3935	3936 3937 3939 3940
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10	SESE	88323	54587	\$4525	22222	868-0	241201-	80323
6	22222	88344	54587	\$48 8 8	52525	888-2	84601-	86325
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Names of the Sixty saftwatsards of the cycle of Jupiter.				1. Prabhava. 2. Vibhava. 3. Sukla. 4. Pramoda. 5. Prajápati.	6. Angiras. 7. Srimukha. 8. Bhāva. 9. Yuvan. 10. Dhātri.	11. Isvara. 12. Bahudhānya. 13. Pramāthin. 14. Vikrama. 15. Vrisha.	16, Chirrabhánu. 17, Subhánu. 18, Türaya. 19, Párthiya. 20, Vyaya.
G C	9.4	M. S.	13	#2255	28535	28822	28232
NG NG	SECOND ARVA- S.	Apparent A. S.	01	122278	28233	军器器程程	22222
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RA C NOO NTA SCY EAN, L	BRAIDKA- S. AND S. Smő.	M. S. Apparent	2	12257.8	ឧឧដនានា	288228	28232
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	1000	M. S.	-	25557	ឧនដនានា	29222	22222
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HE THE THE THE THE THE THE THE THE THE T	384	Mean M. S.	.0	22222	28588	28222	88288
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reth	ar of Kallyu	Expired ye	-	3961 3962 3964 3964	3967 3967 3969 3969 3970	3971 3972 3973 3974 3975	3976 3978 3978 3980
03	0.80	Mean M. S.	22	23222	60-018	40000	92235
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	282	M. S. Mean	os	22222	88-00	400F-8	92222
E SA OILAI PERA P II	Упат Ануа- 8.	Apparent A	Į.	22222	88-22	40000	92=22
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EAC FAC THE TASO APP	Straa. S. with sta.	Apparent A. S.	22	11111	11111	411111	11111
TO TO BE	Strva- S. No nfra.	W S. M. S.	2	202022	60-312	#10@1+@	92222
NA W	Schya. S. No nfaa.	Apparent A. S. M. S.	00	200 000	88-au	41001-0	*2112
	Year A.D.		01	840-41 841-42 842-43 842-43 842-43	845.46 846.47 847.48 848.49 848.49	850-51 851-52 852-53 863-64 864-55	\$55.58 \$55.57 \$57.58 \$38.59 \$89.60
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	Sarvajit. Sarvadhārin Virēdhin. Vikrita. Khara.	Nandana. Vijaya. Jaya. Manmatha Durmukha	Hëmalamba Vilamba, Vikërin, Sarvarin, Plava,	Subhakrit Sobhana, Krödhin. Višvāvaeu, Parābhava	Plavanga. Kilaka. Saumya. Sādhāraga. Virodhakri	Paridhävin Pramādin, Ānanda, Rākshasa, Anala,	Pingala Kalayukta, Siddhārthin, Raudra, Durmati,	Rudubhi Rudhirody Ruktaksha Krodhana Kshaya
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_	ដ់ដដ់ដដ	22222	######################################	\$ 12 8 8 5 5 \$ 12 8 8 13 8	44444	20,24,28	25,52,52	THE STATE OF THE S
13	55755	82332	88988	82882	88488	84844	55555	82882
12	52725	82322	88488	85885	88388	64554	58486	32332
=	22122	ខ្មខ្មខ្មខ្ម	22222	82822	88488	84444	52725	52555
01	55155	ខ្មន្តនាន្ទ	ยลยลย	82882	88488	34444	58465	82222
9	1 33788	82383	88888	85855	RRHRR	84444	32783	25.55.55
90	52783	ខានានាន	88288	82822	22722	34554	33233	82882
1-	122126	ខ្លួននេះ	88888	82822	88488	84484	33733	52522
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	22222	33333	22222	88888	88888	88888	33333	66666
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00	38888	86258	44444	\$82288	82822	8-004	1001-00	22224
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6.5	84888	84444	19242	282222	23222	88-94	1001-00	22222
41	880-81 881-82 881-83 881-83	886-87 886-87 887-88 888-89 876-90	890-91 891-92 892-93 893-94 894-95	895-96 896-97 897-98 899-900	900-01 901-02 902-03 903-04 904-05	905-06 906-07 907-08 908-09 208-10	911-12 911-12 912-13 914-15	915-16 916-17 917-18 918-19 919-26
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TABLE XIII-contd.

Names of the Sixty sainvadaras of the cycle of Jupiter.				1. Prablava. 2. Vibhava. 3. Sakla. 4. Framöda. 5. Prajāpati.	6. Angiras. 7. Srimukha. 8. Bhāva. 9. Yavan. 10. Dhātri.	11. Isvara. 12. Bahudhanya. 13. Pramathin. 14. Vilrama. 15. Vijeha.	16. Chitrabhánu. 17. Subhánu. 18. Táraga. 19. Párthiva. 20. Vyaya.
GED	Sucond Anya-	M. S. M.	13	22122	នពងនាន	222222	85885
NEC DING BY	Suc	S W S	21	227.80	82322	232282	82222
NUMBER OF THE SANVATSARA CONNECTED WITH FACH SOLAR YEAR ACCORDING TO THE SEVERAL SIDDHÁNTAS, BY REASON OF I.S CURRENCY AT AFFARENT, OR AT MEAN, MESHA-SAMERÁNTI.	BRAIDKA. S. AND S. SIRÔ.	M. S. M.	1	557786	នដនានាន	202888	22222
HAN HAN REN ME		Apparent A. S.	10	5 5 7 8 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	ខាននេះ	88888	22222
OF THE SANVAISARA CO EACH SOLAR YEAR ACCO HE SEVERAL SIDDHÁNTA ASON OF LIS CURRENCY AFFARENT, OR AT MEAN, MESHA SAMKRÁNTI	Onto. Strays. S.	N Tr Plean	0	22735	85885	88288	22222
ANIVA	Frist Anxa. S.	N N W	96	22222	8288	88888	22222
FE S SOL SOF OF SHA	Finst Anxa. S.	W TY ST	177	28122	82882	\$25888	22223
A THE	- KA-	Mean M. S.	9	11111	41111	11111	11111
H E THE	SCRYA- S. WIEII sdra.	W S W	ю	11111	11111	11111	FEFF
HAM TOT 1	74. 100 m	M. S.	*	22120	នគននេត	88588	EBBES
NC	Schra S. no naa.	Approprie	62	22122	82882	88288	E8888
	Year A.D.			980.81 982.83 982.83 982.83	985-80 986-87 988-89 988-89	990-91 992-93 993-94	995-96 996-97 997-98 998-1000
শারী	rei of Kaliya	Rapined ye	-	4081 4082 4083 4084 4084	4087 4087 4088 4089 4090	4091 4092 4093 4094 4094	4096 4097 4098 4009 4100
CELD	SECOND ARYA- S.	M. S.	13	55 57 56 55	8-0100+	10 10 1- 10 0	22352
NEC	San	Apparent R. S. M.	23	282282	8-0180+	00400	22352
CON XCOR XA, A, X,	Brauna. S. And S. Sinő,	Mean M. S.	=	50 57 50 50	8-00-	10 10 1- 10 01	22357
TSARA CC EAR ACC DDHANTA URRENCY AT MEAN RANTI.		Apparent	10	555 555	8-00+	200100	22222
	Onio, Sorra S.	M. S.	0	28 57 58 55	8-0104	00100	0=0==
AAR AAR AAL S TS C OR SAAR	TAN .	N. S.	œ	55 57 58 50 50 50	8-00-	00-00	22222
SOL SOL OF 1 CENT	FRETA. S. S.	Apparent A	(to	55 55 55 55 55 55 55 55 55 55 55 55 55	8-00-	00100	The second second
THE SANVATSARA THE EACH SOLAR YEAR A TO THE SEVERAL SIDDHAN REASON OF ITS CURREN APPARENT, OR AT ME MESHA-SAMKRANTI	YA.	Mean M. S.	9	11111	11111	11111	50000
THU THU EAS	SCHYA- S. WITH BITA.	S'IK Vaporent	10	11111	11111	(w. 105/m. c)	11111
NUMBER OF THE SAMY WITH EACH SOLAR TO THE SEVERAL S REASON OF ITS APPARENT, OF	SCEXA- S. NO nlaa.	Mean M. S.	*	885588	8-010+	11111111111111111111111111111111111111	
NC	SCRYA. S. NO nlaa.	Apparent M. S.	62	58 57 58 55	8-010-	00100	51554
	A.D.		De	960-61 961-62 963-64 964-65	965-66 966-67 967-68 968-69 969-70	970-71 971-72 972-73 973-74 974-75	975-76 10 976-77 11 977-78 12 978-79 13
*3u	glaM to rest	Expined 3		4063 4063 1064 1065	4066 4067 4069 4069 4070	4071 4073 4073 4074 1075	4076 4077 4078 1079 4080

								10.2
	Sarvajít. Sarvadhárin. Vireddin. Vikrita. Khara.	Nandana. Vijaya. Jaya. Manmatha. Durmukha.	Hēmalamba. Vilsmba. Vikārin. Sārvarin Plava.	Subhakrit. Sobhana. Krödhin. Viivāvasu. Parābhava.	Plavanga. Kilaka. Saumya. Sadhiraya. Virodhakrit	Paridhävin. Pramädin. Ananda. Räkshasa. Anala.	Pingala. Kalayukta. Siddhärtiin. Raudra. Durmati.	Dundubhi. Rudhirodgarin Raktūksha. Krodhana. Kehaya.
	ដូនជនជន	30,000,000	***	22222	44444	44,44,4%	可能能够	55.5.5.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.
13	27222	20222	82888	28888	28883	25513	\$2448	255525
21	82222	23822	ន្ទម្ភាពន	23823	28838	45545	25223	25525
=	85575	23323	808888	22222	22222	25523	2444	22222
10	8118	ឧខាខាន	868888	22222	28889	23323	84445	32232
6	82222	ឧនាងឧន	88888	#####	28883	25528	2525	25222
00	82222	23822	88848	23222	28883	=333 ±3	25253	28 ¥ 8 8 9.
	21 18 18 18 18 18 18 18 18 18 18 18 18 18	231223	86888	23222	88838	44444	25228	28288
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10	11111	11111	11111	11111	11111	11111	11111	11111
+	30 118 10 118	238228	88888	22222	22222	45546	35858	22222
00	212 218 218 218 218 218 218 218 218 218	តខានាតា	20328	22223	28832	44444	32338	25.25.25
01	1040-41 1041-42 1042-43 1043-44 1044-45	1045-46 1046-47 1047-48 1048-49 1049-50	1050-51 1051-52 1052-53 1053-54 1054-55	1055-56 1056-57 1057-58 1058-59 1059-60	1060-61 1061-62 1062-63 1063-64 1064-65	1065-66 1066-67 1067-68 1068-69 1069-70	1070-71 1071-72 1072-73 1073-74 1074-75	1075-76 1076-77 1078-79 1078-79
	22525 22525 25525 25525 25525 25525 25525 25525 25525 25525 2552 2	4144 4148 4150 4150	255 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4156 4157 4159 4100 4100	25 ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	4168 4168 4169 4170	E51441	4178 4179 180
13	28488	23323	35358	22222	888228		21.800	22222
22	28388	23323	\$4858	22222	55.55	-0100410	21-x05	22223
=	88883	23323	86858	22823	88838		500000	22222
10	88888	44444	35253	22223	888888	- 01 00 4 10	51-205	22222
6	88883	25523	2525	22223	88838	→ 01 to 4 to	21.000	22222
00	28889	44444	35353	52 52 52 52 55	6585156	- 01 00 4 10	21.200	=22222
I*	88888	43543	35338	23,52,43	55855	-0100412	50000	22222
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-	28888	44444	25258	22222	88888	-0100 +10	50000	22222
99	22223	44544	84848	82822	888888	-0100 +10	500010	22222
	1000-01 1001-02 1002-03 1003-04 1004-05	1005-06 1006-07 1007-08 1008-09 1009-10	1010-11 1011-12 1012-13 1013-14 1014-15	1015-16 1016-17 1017-18 1018-19 1019-20	1020.21 1021.22 1022.23 1023.24 1024.23	1025-26 1026-27 1027-28 1028-29 1029-80	1030-31 1031-32 1032-33 1033-34 1034-35	1035-36 1036-37 1038-39 1038-40
-	4103 4103 4104 4104	4108 4108 4110 4110	####	\$\$\$\$\$ \$\$\$\$\$	99999	4128 4128 4130 4130	######################################	4136 4138 4138 4139 4139

TABLE XLII-contd.

Names of the Sixty sativatears of the cycle of Jupiter.					13. Pramāthin. 14. Vikrama. 15. Vrisha. 16. Chitrabhānu. 17. Subhānu. 18. Tāraņa. 19. Pārthiva.
Q _	6.4	M. S. M.	13	12 2 0 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1	282 88488
BY BY AT	SECOND ARYA- S.	S W	01	T2001 38488 78	252 2522
COR.		M. S. Mean	Ξ	2228H 8848H H8	282 88282
RA AO	BRAIDIA- S. AND S. SIRÓ,	Apparent M. S.	10	22382 88228 28	asa nasa
NUMBER OF THE SAMVATSARA CONNECTED WITH EACH SOLAR YEAR ACCORDING TO THE SEVERAL SIDDHÁNTAS, BY REASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MESHA-SAMKRÁNTI,	S AYROS.	Mean M. S.	6	78382 28282 28	822 312222 822 312222
INVA INS INS INT, IA-S	724	W S. W.	00	FEESE SEEES 58	888 8888
E SA SOLA VERA OF ARE	Finst Anya-	Apparent Apparent	7	12282 88288 88	88888 888
SEN SEN API	YA.	Mean M. S.	9	IIIII IIII II	111 11111
R OI EATTHE REA	SCRYA. S. WITH BEA.	Apparent A. S. M.	20	11111 11111 11	111 11111
MBE VITH TO	GRYA- S. NO BLA.	Mean M. S.	4	128601 88488 P8	882 88488
NU	Schya- S. No Bula.	Apparent M. S.	00	18283 38488 588	88488 488
	Year A.D.			1100-01 1101-02 1103-04 1103-04 1105-05 1105-05 1108-09 1109-10	HI5-16 HI6-16 HI7-18 HI8-19 HI9-20
reino	sar of Kally	Expired ye	-	The second secon	252 252 252 252 253 252 253 253 253 253 253 253 253 253 253 253 253 253 253
CES	4. W	Mean M. S.	13	82888 -00000 r-00	22 22222
SARA CONNECTED ZAR ACCORDING SDHÁNTAS, BY RRENCY AT AT MEAN, RANTI.	SECOND ARYA- S.	Apparent A. S. M. S.	21	85288 -01040 t-00	22 22222
ONN CORE AA AN,	MA- ND ND ND	M. S. Mean	Ξ	10 00 00 00 00 00 00 00 00 00 00 00 00 0	32 22 22
RA C IANT IANT ENC ME NTL	BRAIDIA- S. AND S. Smö.	Apparent M. S.	10	12828- HW400 1-00	232 33232
	ORIG. STREAM.	Mean M. S.	9	Pass - 000400 -00	-9= 22 22 2
	187 (A)	Mean M. S.	90	2888- seame -ex	22 2222
E SA SOLA VERA P D VENT	Frast Agya.	Apparent M. S.	t+	12 8 8 0 - 0 10 + 10 10 1- 80 0	22 22 22 22
NUMBER OF THE SAM WITH EACH SOLAR TO THE SEVERL REASON OF ITS APPARENT, MESHA-SA	YA. TITH	Mean M. S.	9	11111 11111 11	
R OH THE EASC	Sorya- S. with rift.	Apparent M. S.	10	111111 11111 11	111 1111
MBE VITTE TO B	K4- 800 A-	M. S.	*	12825- 00400 PRO	32 2222
NE	Sünya. S. no nlaa.	Apparent N. S.	20	2888- 00400 rac	22 112122
	Xear A.D		01	1080-81 1081-82 1081-83 1083-84 1086-87 1086-87 1086-87 1089-90 1099-91 1099-91	1093-94 1094-95 1096-97 1097-98 1098-98 1699-1100
"uSn!	than to may	Expired 2	-	281 282 283 283 284 284 284 284 284 284 284 284 284 284	

								1
	Sarvajit. Sarvadhārin. Viedhin. Vikrita. Khara.	Nardana. Vijaya. Jaya. Menmatha. Durmukha.	Hēmalamba, Vilamba, Ķikārin, Sārvarin, Plava,	Subhakrit. Sobhana. Krödhin. Visvävasu. Paräbhava.	Plavanga. Kilaka. Saumya. Siddharaga. Virodhakrit.	Paridhāvin. Pramādin. Ananda. Rākshasa. Anala.	Pingala. Kālayukta. Siddhārthin. Randra. Durmatii.	Dundubhi, Rudhirôdgain, Raktāksha, Krōdhana, Kehaya,
	Sarvajit Sarvadi Virôdhi Vikrita. Khara.	Nandan Vijaya, Jaya, Menma Darmal	Hāms Vilkāri Sārvar Plava.	Sab Sob Kro Visa Par	Plavah Kilaka, Saumyi Sadhår Virodh	Parid Frami Ananc Raksh Anala	National Pints	Dun Rak Kro Kro
	नंश्रधमध	20.00.00.00	ដង់ង្គង	\$ 5 8 8 5 F	44444	3,1,8,0,0	5.52.52	920.08.77.00
13	C2285	នានានានាន	28928	22222	##8##	52522	\$\$858	SESSE
12	52225	2121222	222282	****	88311	82332	22222	日本日本日
=	청물정말의	ន្ទម្ភមន្ត	88888	HEREE	28944 24	34344	\$4828	82888
10	22828	部本の名が	88888	22222	88979	31332	\$\$853	28222
6	E2285	នគននធ	88828	RESER	88844	81882	##828	228222
00	22828	222322	88888	RARRE	88974	84844	\$6322	22222
15	<u>258888</u>	82822	****	22222	88323	31335	22222	888888
9	11111	11111	11111	11111	11111	41113	11111	11111
10	11111	11111	HILL	11111	11111	11111	11111	11111
7	78582	84888	22223	RESER	88328	84442	****	23222
60	7338g	ខាងខេត្ត	88858	RESER	88979	31484	\$\$858	222222
01	1160-61 1161-62 1163-63 1163-64 1164-65	1165-66 1166-67 1167-68 1168-69 1169-70	1170-71 1171-72 1172-73 1173-74 1174-75	1175-76 1176-77 1178-79 1178-80	1180-81 1181-82 1182-83 1183-84 1184-85	1185.86 1185.87 1187.88 1188.89 1189.90	1190.91 1191.92 1192.93 1153.94 1194.95	1195-90 1195-97 1197-98 1199-1900
1	4362 4363 4264 4264 4264	4267 4267 4268 4299 4270	125 125 125 125 125 125 125 125 125 125	4276 4273 4279 4279 4280	4282 4282 4283 4284 4284	£885 £880 £890 £990	98448 8448	4296 4299 4299 4300
113	28831	33448	4888 2	22223	198881	010000	- x c c l l	22252
12	######################################	33233	2555£	88228	198881	01 10 4 10 10	1-0252	22222
=	28883	33438	# \$ #\$#	88228	188881	01004100	1-002I	22256
10	FRRRR	22222	53582	22223	2888-	31634135	1-x052	35255
Ф	28883	32233	48 50 50 50 50 50	22222	18888	0100400	~×05I	25752
90	28834	33233	73482	88288	158881	01 20 4 10 10	- x c 2 =	22222
t-	28832	33238	23332	38282	58887	0100 + 100	F-8051	22222
9	11111	11111	11111	11111	11111	11111	11111	11111
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+	28831	22223	28282	88788	12888	01-00 H 10 10	r.w.021	22728
3	58883	33438	22222	88388	E888-	0120-010-0	1-0053	22222
01	1190.91	1125-16 1126-27 1127-28 1128-29 1129-30	1130-31 1131-32 1132-33 1133-34 1134-35	1135-36 1136-37 1137-38 1138-39 1139-40	1140-41 1142-45 1143-44 1143-44	1145-46 1146-47 1147-48 1148-49 1148-49	1130-51 1131-52 1132-53 1133-54 1154-55	1155-56 1155-56 1157-58 1158-69 1159-60
1	<u> </u>	4258 4258 4230 4230 4230	19818	2455 255 255 255 255 255 255 255 255 255	23223 23223	4245 4245 4249 4249 4249 4249	1655 1655 1655 1655 1655 1655 1655 1655	255 255 255 255 255 255 255 255 255 255

TABLE XLII--contd.

Names of the Sixty sanvatears of the cycle of Jupiter.				1. Prabhava. 2. Vibhava. 3. Sukla. 4. Pramöda. 5. Prajāpati.	6. Angiras. 7. Srimuklas. 8. Bhāvas. 9. Yuvan. 10. Dhārp.	11. Išvara. 12. Balandhānya. 13. Pramāthin. 14. Vikrama. 15. Vṛleha.	16. Chitrabhánn. 17. Subhánn. 18. Tárana. 19. Párthiva. 20. Vyaya.
rED	SECOND ARYA- S.	M. S.	13	22823	超型設置於	88888	84888
NECT DINC BY	Spr	Ar S. M.	13	81 00 10 000	84888	88828	SESEE
WIEER OF THE SAMVATSARA CONNECTED WITH EACH SOLAR YEAR ACCORDING TO THE SEVERAL SIDDHANTAS, BY REASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MESHA-SAMKRÁNTI.	SRAIIMA- S. AND S. Sinô.	M. S.	1	8 8 8 8 8 8	84888	88888	22222
RA FAN HAN VENC MEA NTI.	Bita	'S 'W quareddy	10	22223	SASSE	*****	RESER
OF THE SAMVATSARA CO EACH SOLAR YEAR ACC TE SEVERAL SIDDHANTA ASON OF ITS CURRENCY APPARENT, OR AT MEAN MESBA-SAMKRÁNTI.	OHIO. STRYA S.	Mean Mean	G.	22823	81 81 81 81	88888	RESES
AR NAIL SAL STATE OF SAME	15.7 CA-	Mean M. S.	00	85858	82882	88888	84888
SOL SOL OF I	Frier Anya-	Apparent M. S.	1~	22828	記載記載記	88888	84885
SON PPAR MES	A. Hall	M. S.	9	11111	11111	11111	11111
	SCHTA- S. WITH BLA.	Y W quaredty	10	11111	11111	11111	11111
WITH TO T RJ	YA. NO	Mean M. S.	#	22823	84888	88888	22222
NO	SCRYA- S. NO BEA.	Apparent	60	82828	ដូនមួនប	888888	28828
	Year A D.			1220-21 1221-22 1223-23 1223-23 1233-24 1233-24	1286-39 1286-37 1228-39 1239-39	1230-31 1231-32 1232-33 1234-34 1234-35	1235.36 1236.37 1237.38 1239.40
*83:	re of Kallyr	Expired ye	1	29248	4524 4529 4529 4539 4539 4539	255 455 455 455 455 455 455 455 455 455	\$6555 \$655 \$655 \$655 \$655 \$655 \$655 \$65
ED	SECOND ARYA- S.	N. S. M.	22	88.82.24	24000	×6213	22225
ECT ING BY	AB	Apparent & M. S.	53	288-44	20000	8 0 0 T 2	22222
ONN OORD AS, AT,	DMA- ND ORÔ,	Mean M. S.	=	8 6 6 - st	00 to 00 to	802II	12222
AOC AOC ANT ANT INGN	BRAIDHA. S. AND S. Sino,	'S W	10	888-11	04000	×0223	22522
VATSARA CONNECTED YEAR ACCORDING SIDDHÄNTAS, BY CURRENGY AT OR AT MEAN, MKRÄNTI.	OHIO. SCRYA S.	N. S. M	O)	888-0	84601	×0228	22222
WHER OF THE SAMVATSARA CONNECT WITH EACH SOLAR YEAR ACCORDING TO THE SEVERAL SIDDHÁNTAS, BY REASON OF ITS CURRENGY AT APPARENT, OR AT MEAN, MÉSHA-SAMKRÁNTI.	TAY.	M. S. M.	*	888-4	204001	00222	22222
E SA SOLA PERA OF LI ENT	First Anya- S.	Apparent	1	888-0	20 4 10 40 14	×6213	24587
NUMBER OF THE SAMY WITH EACH SOLAR I TO THE SEVERAL S REASON OF ITS OF APPARENT, OF MÉSHA-SAM	ORYA- WITH Blia.	M. S. M. S.	9	11111	14411	11111	11111
R OF I EA THE VEAS AP	SCRYA- S. WITH BLA.	'S'W	ō	11111	11111	11111	11111
WIELS WITH TO	X4.	M. S. M.	7	338 - o	00 + 00 to	×0222	22225
NO	SCRYA- S. NO BLA.	Apparent	43	4 4 5 - or	00 + 10 to b+	×====	22225
	Year		01	1200.01 1201.02 1202.03 1203.05 1204.05	1205-06 1206-07 1206-07 1208-08 1209-10	1210-121 1212-13 1213-14 1213-14 1213-14	1215-16 1216-17 1217-18 1218-19 1219-20
180	tilaH to m	Expired ye	-	4302 4302 4304 4304 4304	4300 4300 4300 4310	455 455 455 455 455 455 455 455 455 455	4316 4317 4319 4320

	Sarvajit. Sarvadhärin. Virôdhin. Vikrita Khara.	Nandana, Vijaya, Jaya, Manmatha, Durmukha,	Hémalamba, Vilamba, Vikirin, Sārvarin, Piava,	Šubhakrit. Sobham. Krödhin. Višvāvasti. Perābhava.	Plavanga, Kilalm, Saumya, Sadharana,	Paridhāvin, Pramādin, Ānanda, Rūkchasa, Anala,	Pingala. Kalayukta. Siddhärthin. Raudra. Durmati.	Dundubhi. Rudhirödgarin Kaktalsaha. Krödhana. Kshaya.
(0.)	ន្ធន្ធន្ធន្ធន្	30, N V V V V V V V V V V V V V V V V V V	32. VAH 35. VAH 35. PH	38, 38, 55 38, 88, 86 40, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75	三の名称は 日田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	48. Pr 48. Ar 50. Ar	19 18 18 18 18 18 18 18 18 18 18 18 18 18	55. Ra 59. Kr 60. Kr
92	28538	22222	333300	38 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	88488	44449	\$8255 66666	25,25,25
51	28538	22222	88888	33252 33253 33253	86444	44444	40000	
=	28538	28888	88888	888888		-		82288
01	28588	28888	88288	33283 33283		45578	28288	25555
6	98535	202222	88238	The source water	OPENTS NOTICE	25358	58288	28888
-	28533	222222	98888	883888	89777	45848	38288	2010001
10	1 28533	202000	88288	83388	86144	45348	482388	83283
9	1 1 1 1 1 1	S44-45 300-5114.8	1855 200 11	38838	83444	45528	28238	283223
ig.	T the contract		IN DEE	11111	11111	11111	11111	11111
-				diam	11111	11111	11 193	11111
00	28233	28828	88233	****	86444	44848	982388	821883
-	28288	288888 288888	200 - 10 200 - 10	82888	86144	43373	38222	23332
01	1280-81 1281-82 1282-83 1283-84 1284-85	1285-86 1286-87 1287-88 1288-89 1288-89	1290-91 1291-92 1292-93 1293-94 1294-95	1295-96 1296-97 1297-98 1298-130	1300-01 1301-02 1302-03 1303-04 1304-05	1305-06 1306-07 1307-08 1308-00 1309-10	1310-11 1311-12 1312-13 1313-14 1314-15	1315-16 1316-17 1317-18 1319-20
-	288248 288248 288248	4386 4388 4389 4389 4390	4392 4392 4393 4393	4395 4397 4399 4400	11111 101111 101111	4408 4407 4408 4410 4410	4418 4418 4414 4415	4416 4417 4418 4420 4420
123	88323	52525	\$ \$\$53	8288	88-010	40000	92233	#557.8
21	88977	34534	\$4823	22322	800 - 018	40010	92233	1812612
= :	88644	#####	28222	23222 23222	88-010	40000	00222	22222
10	88323	\$3373	88288	82388	88-010	#00t-0	*SI22	8222E
6	88974	34682	88288	353255	88-00	+0000	92222	22222
œ	88444	\$4444	28238	25222	88-00	40000	98222	23378
t-	886448	51252	28238	23252	88-010	40000	02222	20218
9	11111	11111	11111	11111	11111	11111	1:1:	11111
io	11111	11111	11111	11111	11111	11111	11111	11111
4	883444	3448¢	28288	23222 23222	88-98	+001-0	00223	100F8
69	88344	31131	\$8222	83888	88-00	+1001-00	*2222	81222
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Names of the Sixty sarivatants of the cycle of Jupiter.				Prabhava. Vibhava. Sukla. Pramôda. Praj špati.	Angiras. Srimukha. Bhāva. Yuvan. Dhātri.	Israra. Bahudhãoya. Pramāthin. Vikrama. Vṛraha.	Chitrabhánu. Subhánu. Tárana. Párthiva. Vyaya.
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	g .y .	M. S.	13	ននេត់នៃន	ลลหสล	82882	22222
TECT SING BY	SECOND ARYA- S.	'S 'W	22	28288	88888	82822	BRHRR
MBER OF THE SAMVATSARA CONNECTED WITH EACH SOLAR YEAR ACCORDING TO THE SEVERAL SIDDHĀNTAS, BY REASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MĒSHA-SAMKRĀNTI.	ND ND INO.	M. S.	=	82338	ลลนสล	22322	282388
RA (ACK ENC NEA NTL.	BRAIDAA S. AND S. SIRÖ.	Y Deparent	10	82882	22222	82882	282383
OF THE SANVATSARA CC EACH SOLAR YEAR ACCO TE SEVERAL SIDDHANTA ASON OF ITS CURRENCY APPARENT, OR AT MEAN MESHA-SAMKRĂNTI.	Onto. Scray's S.	Mean Mean	Φ.	82882	អូងឧដ្ឋ	85333	883388
AR NE SAND	181	M. S.	00	82883	88989	82332	22222
IBER OF THE SAN VITH EACH SOLAR TO THE SEVERAL REASON OF ITS APPARENT O APPARENT O	Frist Aira- S.	Y S W	1-	ខ្មខ្មខ្មខ្ម	88988	82882	883388
OF THE EACH SO HE SEVE LASON OF APPARE MESH.	YA.	W S. W.	9	11111	11111	11111	11111
E EN	SCRYA- S. WITH RITA.	Apparent M. S.	10	11111	11111	117111	11111
NUMBER WITH TO TI	XA-	M. S.	**	82222	성정인정함	82332	888888
UN	Strxa- S. No stra.	'S 'W	99	82322	88288	22222	88888
	Year A.D.		. PI	1340-41 1341-42 1342-43 1343-44 1344-45	1345-46 1346-47 1347-48 1348-49 1349-50	1350-51 1361-52 1352-53 1353-54 1354-55	1355-56 1356-57 1357-58 1358-59 1349-60
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ONN AS, AF,	AND AND Smo.	Mean Mean	=	80-018	4001-0	22222	138785
TSARA CC EAR ACCO DDHANTA BREENCY AT MEAN RANTI.	BRAIDA S, AND S, Smô,	Apparent M. S.	10	88-00	4001-0	*=====	22122
MBER OF THE SANVATSARA CONNECT WITH EACH SOLAR YEAR ACCORDING TO THE SEVERAL SIDDHANTAS, BY REASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MESHA-SAMRRÂNTI.	Onio. Schya S.	Mean M. S.	9	88-110	4001-0	92223	22122
MAYA LE SE US GE AMERICA	ST.	M. S.	00	88-00	41001-00	92352	32725
NUMBER OF THE SAMVA WITH EACH SOLAR Y TO THE SEVERAL SI REASON OF ITS CI APPARENT, OR MESHA-SAMK	First Árya- S.	Apparent A. S.	1-	88-0101	# 10 10 1-00	#####	22122
SEN PAR MES	YA- TEH TA:	Mean Mean	10	自規制	11111	11111	11111
R OF THE REAS	Senya- S. with Bea.	Apparent A. S. M. S.	10	11111	11111	11111	11111
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Names of the Sixty suthertsarus of the cycle of Jupiter.					1. Prabhava. 2. Vibhava. 3. Sukla.		6. Angiras. 7. Srinukha. 8. Bhāva. 9. Yuvan. 10. Dhātri.	11. Iévara. 12. Bahudhānya. 13. Pramāthin. 14. Vikrama. 15. Vrisha.	16. Chirabhinu. 17. Subhinu. 18. Tarana. 19. Parthiva. 20. Vyaya.
ED	ONED CA-	M. S. Moan	13		ដូននេះ	100	ន្ទមន្ទន	23828	22823
SAMVATSARA CONNECTED LAR YEAR ACCORDING RAL SIDDHÁNTAS, BY ITS CURRERICY AT TY, OR AT MEAN. A-SAMKRANTI.	Suconto Anya- S.	Apparent	압		2883	122	82228	23223	52883
CONNE CORDICAS, B Y AT N.	AND AND SIRÖ.	Mean Mean	=		2889	181	82228	****	58838
OF THE SAMVATSARA CO EACH SOLAR YEAR ACCO HE SEVERAL SIDDHANTA SON OF ITS CURRENCY APPARENT, OR AT MEAN MESHA-SAMKRANTI.	BRAHMA S. AND S. SIRÖ,	Arrando Arrant	10		28181	100	22223	88883	\$8833
THE SAMVATSARA SEVERAL SIDDHAN N OF ITS CURREN MESHA-SAMKRANTI	S AZHOS	N S W	6		ដូននេះ	122	82888	22222	\$2883 4
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MBER OF THE SAW WITH EACH SOLAR TO THE SEVERAL REASON OF ITS APPARENT, O MESHA-SA	Finst Anxa- S.	Apparent Apparent	1-		20183	122	82888	28838	\$3833
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	Sarvajit, Sarvadhii Virodhin, Vikrita, Khara,	Nandans Vijaya. Jaya. Manmati Durmuid	Hēmahan Vilamba. Vikārin. Sārvarin. Plava.	Sabb Schh Kröc Viiv Pari	Phavan Kilaka, Saumyi Sādhāri Virôdhi	Paridh Pramă Anand Raksh Anala,	Ping Side Ban Dur	Kal Kal
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TABLE XLII-contd.

Names of the Sixty name of the Sixty the cyale of Jupiter					3. Sukla. 4. Pramôda. 5. Prajápati.	6 Angiras. 7. Srimukha. 8. Bhāva. 9. Yuvan. 10. Dhātri.	11. Byarn. 12. Bahudhinya. 13. Pramathin. 14. Vikrama. 15. Vrisha.	16. Chitrabhánu. 17. Sublánu. 18. Tárana. 19. Párthya. 20. Vyaya.
ED	GA-	M. S. M.	22	61	ងខ្លួន	228282	22222	##883
BY	SECOND ARYA- S.	Apparent M. S.	0]	010	8888	28882	22228	28884
COR COR COR CAS, A' A'	Branda- S. And S. Smô.	Mean M. S.	=	810	88888	98888	22888	88974
RA C IANT ENC MEA	S. S. S.	Apparent M. S. M.	10	010	3288	23823	****	88844
THE SAMVATSARA JH SOLAR YEAR, A SEVERAL SIDDHAN ON OF ITS CURREN ARENT, OR AT ME	Onto, Sonxa S.	M. S. M.	6	818	8888	ដូនមន្ត្រ	arrin a	88343
MINA RESERVA	t3.	M. S.	oc.	818	aaaa	22822	*****	883±3
E SA SOLA FERA OF LI CNT, HA-S	Рикт Акта- 8.	Apparent M. S.	1-	818	3 22 23 23	22223	22822	88344
MBER OF THE SANVATSARA CONNECTED WITH EACH SOLAR YEAR, ACCORDING TO THE SEVERAL SIDDHANTAS, BY REASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MESHA-SAMKRANTI.	à Ē a	M. S.	9	818	3222	22222	22222	168837
	SCRYA- S. WITH BLIA.	M. S. M.	10	818	ន្ទ្រ	28882	22222	28883
NUMBER WITH TO II RE	KA- XO A.	M. S. M.	190	818	3222	22882	28888	88344
EDN NO.	Strya- S. No nilaa.	Apparent M. S.	92.	318	1222	22222	22222	88944
	Year A.D.		01	1580-81	1582-83 1583-84 1584-85	1585-86 1586-87 1587-88 1588-89 1588-89	1590-91 1591-92 1592-93 1593-94 1594-95	1595-96 1596-97 1597-98 1598-99 1598-1600
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FSARA CO SAR. ACC DDHANTA BRENCY AT MEAN RANTI.	BRAHMA S. AND S. Smö.	W S W	10	010	400	r***25	22222	28882
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MYA R YI S CU OR AMK		M. S.	00	01.00	400	-×021	32428	18885
ERA FIT INT.	Frast Arra- 8.	Apparent N. S.	t+	04 05	4100	r. x c 2 I	22222	12 8 8 8 17 17 17 17 17 17 17 17 17 17 17 17 17
TER OF THE SAMVATE THE EACH SOLAR YEL OF THE SEVERAL SID REASON OF ITS CUE APPARENT, OR A MÉSHA SAMKR	AND A	M. S.	9	08.00	4100	r-ma22	22222	128881
EAN FIHE TASO APP	SCRYA- S. wirn nita.	Apparent M.S.	10	61 00	4100	1-00BI	35223	18281
TOT		N.S.	4	04.00	400	120071	22222	18882
NUMBER OF THE SAMVATS WITH EACH SOLAR YEA TO THE SEVERAL SIDI REASON OF ITS CUR APPARENT, OR AT MESHA SAMKR.	SCHYA.	Apparent M. S.	00	08.00	400	112002	32253	58582
Year A.D.			OV	1560-61	1562-63 1563-64 1564-65	1565-66 1566-67 1567-68 1568-69 1569-70	1570-71 1571-72 1572-73 1573-74	1575-76 1576-77 1577-78 1578-79 1579-80
w2n	one of Kaliy	Expired y	-	4661	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4666 4667 4669 4669 4670	4671 4673 4673 4674 4676	4676 4677 4678 1679 4680

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	Sarvajit. Sarvadhārin. Virōdhin. Vikrita. Khara.	Nandana, Vijaya, Jaya, Manmatha, Durmukha	Hömalamba Vilamba. Vikārin, Sārvarin, Plava.	Subhakrit. Sobhana. Krödhin. Visvāvasu. Parābhava.	Plavanga. Kilaka. Saumya. Sadhirana. Virôdhakrit	Paridhävin. Framādin. Ānanda. Rākshasa. Anala.	Pingala. Kālayukta. Siddhārthin Raudra. Durmati.	Dundubhi. Rudhirodga Raktūksha. Krodhana. Kahaya.
				Sub Sob Kros Vish Par			2000	. C.
	200020	222222	***	88.89.9	45444	37,83,00	48888	2,58,39
13	84848	88888	28888	88344	34344	\$4828	98888	86.00 - 61
12	ន្ទន្ទន្ទន	22222	22222	88344	24222	\$4828	22222	888-0
=	ន្ឋមន្ត្រ	22223	HERER	88323	22322	\$2523	22222	88-018
10	82882	22823	22222	88944	34484	# \$\$25	82828	88-018
6	원작정원원	88888	22222	88344	34352	848222	23888	1 1 25
00	222222	88888	33335	88844	34382	\$4325	55 57 57 58	88-018
1	82332	89853	****	888444	34484	*4823	84848	88-00
9	82882	22823	22222	88344	32322	****	22222	888-01
ю	82885	22823	*****	88974	84484	84825	84884	888-4
4	ន្ឋមន្ត្រ	88888	22222	888444	34382	\$4823	22232	1 1 28
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13	32382	34823	22882	85 0 1 st	W400F-	∞ a 2 ± 3	22227	22823
123	34387	33323	22322	888-0	2041201-	∞e8⊒8	22527	85858
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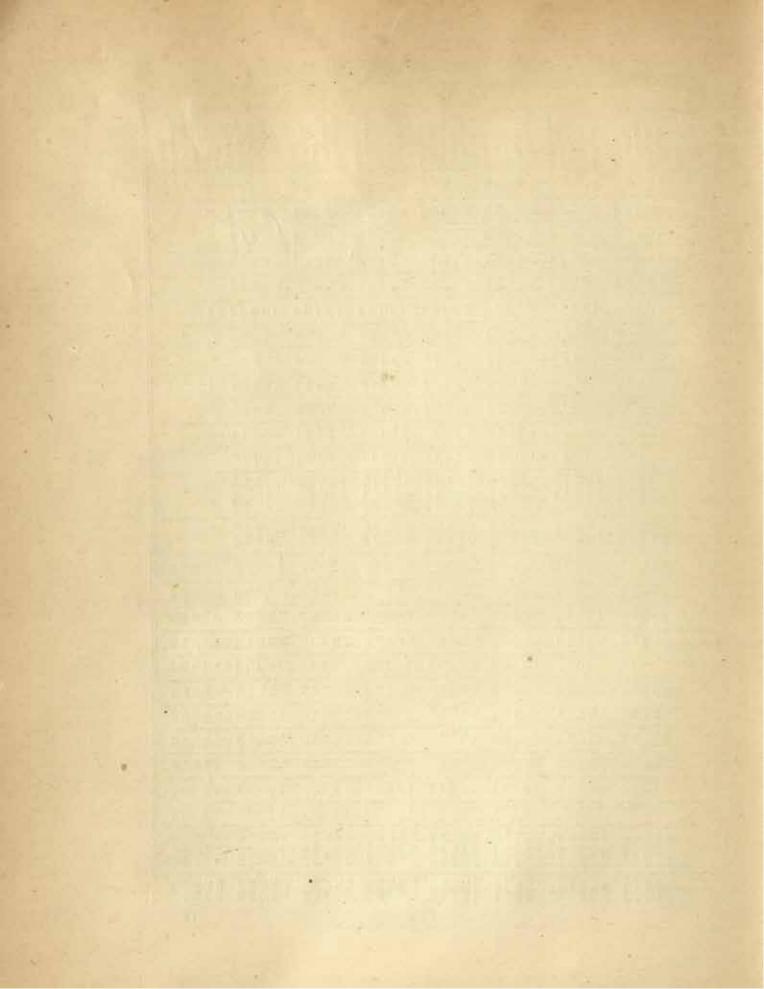
Names of the Sixty sanyatsarus of the cycle of Jupiter.				1. Prathava. 2. Vibhava. 3. Sukla. 4. Pramôda. 6. Prajapati.	6. Angiras. 7. Srimukha. 8. Bhāva. 9. Yavan. 10. Dhātri.	11. Evara. 12. Bahudhinya. 13. Pramāthin. 14. Vikrama. 15. Vrisha.	16, Chitrabhánu, 17, Subhánu, 18, Táraga, 19, Párrhiva, 20 Vyaya,
ED	SECOND ARYA- S.	Mean M. S.	13	22222	22233	RESER	88444
ECT	Szcox Anxa- 8.	A.S. M. S.	22	81888	252333	******	88444
ONN SORI AS, AT	AND AND Smö.	M. S. M.	Ξ	288228	88288	22222	88238
A C A C A C A C A C A C A C A C A C A C	BRAHMA. S. AND S. Smö.	Apparent M. S.	9	25 25 25 25 25 25 25 25 25 25 25 25 25 2	88888	383828	83444
NUMBER OF THE SANVATSARA CONNECTED WITH EACH SOLAR YEAR, ACCORDING TO THE SEVERAL SIDDHANTAS, BY REASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MESHA-SAMKRÄNTI	S AYROS	N. S. M.	0	41111	11111	11111	11111
NYA R Y L SI S CU		M. S.	œ	28822	88888	****	86444
R OF THE SAM H EACH SOLAR THE SEVERAL REASON OF ITS APPARENT, O MESHASAN	Fust Anxa. S	Apparent	T+:	222222	28222	83888	83253
PAR NESU NESU	à E ,	N. S.	9	22,822,8	សម្ ខម្មម	33252	882533
EAS AP	Stuxa- S. wttu ntra.	W S W	10	252552	28222	25252	88258
TO	XV.	M. S.	+	11111	18 18 1	41111	11111
NON	SCRYA- S. NO silaa.	'S 'W	00	11111	11111	11111	HILL
	Year A.D.		91	1700-01 1701-02 1702-03 1703-04 1704-05	1705-06 1706-07 1707-08 1708-09 1709-10	1710-11 1711-12 1712-13 1713-14 1713-14	1715-16 1716-17 1717-18 1718-19 1719-20
-62	ntilaN lo re	Exhined year	-	4801 4803 4804 4804	4807 4808 4809 4810	4812 4813 4814 4815 4815	4817 4817 4819 4819 4820
Q.	84	Mean M. S.	13	20000	@222E	45578	28238
NECTI	SECOND ARYA- S.	Apparent M. S.	일	2000	*82232	45578	28288
ONNO ORD AT AT	A	M. S.	=	4001-0	e 51115	12278	28288
SARA CONNECTED AR, ACCORDING DHANTAS, BY REENCY AT T MEAN,	BRAIIWA S. AND S. SURÖ,	Apparent A. S.	9	400t-x	92238	22222	28288
OF THE SAMYATSARA CONN EACH SOLAR YEAR, ACCORD IE SEVERAL SIDDHANTAS, ASON OF ITS CURRENCY AT APPARENT, OR AT MEAN, MESHA-SAMKRANTI.	ORIO. SURVA S.	Mean M. S.	.0	111111	11111	11111	11111
SAMVAT LAR YE, RAL SID ' ITS CUI NT, OR A		Mean Mean	-00	4001-0	02233	45578	28233
SA OLAN ERAN F IT ENT.	Frast Arya. 8.	Apparent	1-	4001-0	92222	46878	28282
OF THE EACH SO HE SEVE EASON OF APPARE MESH	343	Monn M. S.	9	04001-	* 21112	25578	28588
CO. CO. HAR DO.	Souva- so S. with M. Bea.	8 W suareddy	10	24001-	* 2222	222C8	28232
NUMBER WITH TO I		Mean M. S.	*	11111	11111	11111	11111
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	Year		01	1650-81 1681-82 1682-83 1683-84 1684-85	1685-86 1686-87 1687-88 1688-80 1689-90	1690-91 1691-92 1692-93 1693-94 1694-95	1685-96 1696-97 1679-98 1698-99 1699-1700
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	Sarvajit, Sarvadiārin, Virōdhin, Vikrita, Khara,	Nandana. Vijaya. Jaya. Manmatha. Durmukha.	Hémalamba. Vilamba. Vikárin. Sárvarin. Plava.	Subhakrit. Sobhana. Krodhin. Višvāvasa. Parābhava.	Flavañga. Kīlaka. Saumya. Sādhāraņa. Virôdhakṛiê.	Paridhāvin. Pramādin. Ānanda. Rālohasa. Ansla.	Pingala. Kalayukta. Siddhärthin. Raudra. Durmatt.	Dandubhi. Radhirôdgarin. Raksikaka Krôdhana. Kabaya.
					Name Name	Paridly Frami Anand Raitsh Anala	Pingala Kalayu Siddhar Raudra Durmat	Dun Rak Kro Ksh
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13	29822	ลลสสส	28888	34334	32723	82222	882388	8-0100-1
23	288828	88888	88888	32332	22238	82822	88288	8-0100+
=	នឧបឧឧ	88888	22223	30334	32533	32334	59555	8-018-
10	88288	82822	88388	3=333	4444	82882	88388	8-00+
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œ	28238	82882	88388	34334	33733	82882	88288	8-20-4
t-	22222	82322	RRHRR	32322	33533	32333	38238	8-404
9	22222	88538	****	32382	58588	82884	28 27 28 28	8-004
10	23222	88288	****	34444	55555	52555	558 558 558 558 558 558 558 558 558 558	8-004
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01	760-61 761-62 762-63 763-64 764-65	765-66 766-67 767-68 768-69 769-70	770-71 771-72 772-73 773-74	776-76 77-6-77 77-78-79 77-8-79	23828	88888	22222	98 98 98 98
	1760 1762 1763 1763 1764	1766 1766 1767 1768 1768	5577 5577 5577 5577	5777 8777 8777	1780-81 1781-82 1783-84 1784-85	1785-86 1786-87 1787-88 1788-89 1789-90	1790.91 1791.92 1792.93 1793.94 1794.95	1795-96 1796-97 1797-98 1798-99 1790-1800
-	4862 4863 4863 4864 4865	4866 4868 4868 4809 4870	4872 4872 4874 4874 4876	4876 4878 4879 4880	4881 4882 4884 4884	4885 4887 4889 4889 4890	4891 4892 4894 4895 4895	4896 4897 4898 4899 4900
13	15278	28225	28328	80-00	4001-0	98233	45858	58223
21	4,6,6,5,8	88288	23222	88-012	41001-00	+3=35	10202	28555
=	46828	28.1.35	28.88.82	88-418	4001-0	92222	12372	22882
10	22373	28233	23322	88-018	+4001-00	00100	12278	28888
6	11111	11111	11111	11111	11111	11111	11111	HIIII
00	25252	48222	22222	88-00	410 40 1-00	#2232	22222	98888
1.	13323	25222	23222	28-010	41001-00	-9=11g	22252	28282
9	\$3858	48222	25,55,55	8 8 - 01 R	+001-0	02222	25552	28233
10	#####	485555	26868	88-018	4001-0	*9=35	12218	28288
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-	4883 4883 4883 4883 4883	4826 4828 4829 4830	£84444 £884 £884 £884 £884 £884	4830 4838 4839 4840 4840	4842 4843 4843 4843 4845 4845	4847 4847 4849 4850	4852 4853 4854 4855 4855	808 808 808 808 809 809 809

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Names of the Sixty main variants of the cycle of Juplier.				1. Prabhava. 2. Vibhava. 3. Sukla. 4. Pramôda. 5. Prajápati.	6. Angiras. 7. Srimusha. 8. Bhisva. 9. Yuvan. 10. Dhätri.	11. Jévara. 12. Bahudhánya. 13. Pramáthin. 14. Vikrama. 15. Vriaha.	16. Chitrabhānn. 17. Subhānu. 18. Tāraṇa. 19. Pārthva. 20. Vyaya.
ED	d so	'S'W	2	88988	82822	88388	
NECT DING BY	SECOND ARYA- S.	Apparent A. S.	21,	22222	82882	28288	
CONNECTED CORDING TAS. BY Y. AT IN.	Buanya- S. And S. Smo.	M. S.	=	88288	82884	88388	No. of Concession, Name of Street, or other Persons, Name of Street, Name of S
RA ACCEANT ACCEANT SENCE MEAN	E constant	Apparent A. S.	2	232223	82222	28238	34444
WBER OF THE SA VATSARA CONNECT WITH EACH SOLAR YEAR, ACCORDING TO THE SEVERAL SIDDHANTAS BY REASON OF ITS CUERENCY AT APPARENT OR AT MEAN. MESHA-SAMKRANTI	S AYROS	Mean Mean	9	11111	1111	11111	11111
ANE SE	E 2.	Mean M. S.	30	ននគនន	22322	88488	10 10 10 10 10 10 10 10
ENT, HA-S	Finst Anya- S.	Apparent N. S.	(-	នគ្គក្ខន្ធន	85885	28288	24444
OF THE SA EACH SOLA HE SEVERA NSON OF I APPARENT, NESHA-S	WITH MILE	M. S.	9	22222	88888	88488	34324
FHR FASC AP	Scheya- S. with nea.	Apparent M. S.	6	88288	85884	RRHRR	32332
NUMBER WITH TO T RE.	283	Mean M. S.	* 1	11111	11111	11111	11111
ON CONTRACT	Stura. S. No man.	N S W	92	11111	11111	11111	11111
	Year	0	04	1820-21 1821-22 1823-23 1823-24 1824-25	1825-26 1825-26 1825-28 1828-29 1829-30	1831-32 1831-32 1832-33 1833-34 1834-35	1835.36 1836.37 1837.38 1838.39 1839.40
+e3	nyila M to ta	Expired ye	7	254244	4925 4928 4929 6939	255 4 4 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5	4936 4939 4940
G2	N YD	M. S. M.	23	1001-00	22222	22728	ខ្លួននេត
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NORTH NAS.	-	M. S. M.	=	10 to 10 co	2=222	22722	82382
A C AND	BRAITMA- S. AND S. Smo.	S TE	10	10 20 1- 30 40	22222	22722	ឧតខានត
ATSARA CONNECTEI VEAR, ACCORDING SIDDHANTAS, BY CURRENCY AT R AT MEAN.	S VAUUS	N. S. M.	6	11111	11111	11111	11111
De		M. S.	×	100000	22227	22786	និតនិនិតិ
THE SANV R SOLAR SEVERAL N OF ITS PARENT, O	Finst Anya, S.	Apparent A. S.	1-	10 10 10 00	21227	192122	82382
MITH EACH SOLAR VI WITH EACH SOLAR VI TO THE SEVERAL SI REASON OF ITS CI APPARENT OR APPARENT OR	XX.	M. S.	9	100000	212127	527.85	85383
	SPRYA- S. WITH DLIA	A. S. M. S.	10	1001-00	22227	BETER	នតនានាត
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	Sarvajih. Sarvadhäcin. Virothin. Vibrita.	Nandana. Vijaya. Jaya. Manmatha. Durmukha.	Hēmalamba, Vikarin, Vikārin, Sārvarin, Plava,	Subhakrit. Sobhama. Krödhin. Višvāvasu, Paribhava.	Flavatiga. Kilaka. Saumya Sadhā ama. Virodhakrit	Paridhāvin. Pramādin. Ānanda. Rākshasa. Anala.	Pingala, Kalayukta, Siddarthin, Baudra, Durmati,	Pundubhi, Rudhirôdgāria Baktāksha, Krōdhana, Kshaya,
							100000000000000000000000000000000000000	HOUSE THE REAL PROPERTY.
	यं श्रेश सं सं	***	#####	* * * * * * * * * * * * * * * * * * * *	44444	\$4\$85	द्धस्यस्	8,5,8,6,9
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THE TRUE LONGITUDE OF THE SUN IN HINDU ASTRONOMY, PART I ÄRYA-AND SÜRYA-SIDDHANTAS.

(Previously published in Epigraphia Indica, Vol. XIV, pp. 1-67.)

234. The exact position of the true or apparent sun at sunrise of each civil day, taken for tabular purposes as mean sunrise, is one of the essential elements of Hindu chronography, and the exact position of the true moon is another. From these positions are calculated the beginning and end of each tithi and nakshatra, with the curroncy of these at sunrise. All over India for many centuries the civil day has been coupled with the true tithi current at sunrise, the nakshatra in which the true moon stands at sunrise being stated in the local almanaes and constantly mentioned in the dates of historical inscriptions. In Southern India the nakshatra was considered of such importance that from as early as the tenth century it has regularly given its name to the day. For the proper verification of historical inscription-dates, therefore, it is of the highest importance that we should know the precise position of the true sun at any moment and more especially at the moment of mean sunrise.

S. B. Dikshit, 1896), though resulting in a fair approximation, did not, for critical examinations of dates, give a sufficiently close result, as I have already explained in my "Indian Chromography," §§ 119, 120, pp. 42-43; something more accurate was required. We want, for each of the Indian astronomical authorities separately, extremely accurate determination of the sun's true longitude each day of the year; and there is only one way to obtain this. For each day a calculation must be made of the exact equation of the sun's centre on the basis of the sun's mean anomaly, according to the Hindu method of computation. This was a formidable undertaking; but it has now been accomplished for the First Ārya- and Sārya-Siddhāntas, and the Tables are published berewith. It is to be hoped that they are final. They are intended to fix the true longitude of the sun on any day or at any moment of the day, with an accuracy extending to the hundredth part of a second. Similar Tables for the Sildhānta-Širōmani are given in the next section. I give the result in degrees and parts, and in ten-thousandths of the circle. The former, converted as desired, can be adapted to any system of reckoning; the latter are for use by the Indian Calendar system."

236. These calculations are, as I have stated, based purely on the Hindu system of reckoning. I have used for the sun's mean anomaly and longitude the mean position and mean motion of the sun as gathered from each Siddhānta separately, and have used the Hindu values of the sines for computing the amount of the equation of the centre, and thence the sun's true position. The Tables are prepared according to the First Ārya- and Present Sūrya-Siddhāntas, the latter both with and without the bija. The bija (correction), which came into general use about A.D. 1500, made no change in the length of the solar year or the number of civil days in a mahāyuga, or in the position of the sun's upsir, and therefore none in the sun's longitude whether true or mean.

237. Assuming, since these Tables are not intended for any but the initiated, that the Indian Calendar process of calculation, which might be termed Prof. Jacobi's first process and which has the advantage of simplicity, is known to readers of the Epigraphia, only one or two remarks need be made before entering on details. Since everything depends on the accuracy of the Table-entries, I must call attention to the great help which I received from M. Louis de Ries of Moscow for many months. He takes the greatest interest in Hindu astronomy, and has prepared certain Tables of his own, the publication of which has been

¹ For calculation affecting all parts of India the basis has to be mean sunrise, and this is always taken as mean sunrise at Lanks, or Ujjain, an maginary spot on the equator on the meridian of Ujjain, E. long 75° 46′ 17°.

³ The Indian Calcular system is the system adopted by Prof. Jacobi (of Bonn) in 1888. (Ladian Antiquary, Vol. XVII), itself founded on Largetca. (Connaissance des Temps, 1845).

delayed by the great European war. His processes are characterized by the most painstaking endeavours to obtain extreme accuracy for every result arrived at. Filled with a similar desire, and after my calculations for the sun's exact position (in true longitude for successive 24-hour periods after the true sun's arrival at long. v°) had been carried out for about one-third of the Ārya-Siddhānta year. I asked M. de Ries to calculate some of these positions of the sun by his own method, so that we might compare the results. He most kindly did so; and, when I state that our results, worked in entire independence of one another and by different methods, were found to agree in every respect down to four, and in one case even down to five, decimals of a second, I think that it may be fairly assumed that my Tables may be depended upon.

238. There is more than one reason why the Indian Calendar system, though yielding results very fairly approximate, requires some expansion for the purpose of exact calculation. By it we have been in the limbit of computing the true moon's place both for the tithi and nakshatra by the Surga-Siddhauta data, using the same figures for finding the tithi-index, t. and nakshatra-index. a, for all dates, both for inscriptions known to belong to tracts and times when the Arya-Siddhaata was the authority used by the framers of the record, as well as for those which must have been guided by almanaes calculated by the Sarya-Siddhanta, The c of the Indian Calendar method, i.e. the sun's mean anomaly at any moment, is always the Surya-Siddhanta "c" in thousandths of the circle, and that it differs in various proportions at different times of the year from the "c" of the Arya-Siddhanta will be apparent to anyone who compares the entries for the same day given in my new Tables XLVIIIA and B. cols. 2, 3, in ten-thousandths. At the moment of Mesha-samkranti for instance (the first entry in each Table) the "e" by the Sarya is 2794'0642 in ten-thousandths, and is 279 in thousandths in Indian Calendar reckoning; but by the Arya-Siddhanta it is 2774:5577, and so for our ordinary reckoning should be stated as 277. In calculation for the tithi-index, "t", in ordinary work this difference has no very great effect, though of course it actually has some, and possibly may in some cases alter the value of "t" by one unit (4! minutes); but it has greater effect when we are calculating the nakshatra, as will presently be explained. As to the difference between the two authorities in the value assigned to the san's true longitude. "s", it will be seen that this varies day by day. About Day 261, i.e. the 261st period of 24 hours each measured from true Mesha-samkranti, the value of "a" is practically the same by the two authorities; about Day 150 the Arya "s" is about 3' 36' ahead of the Sürya "s." The difference increases and diminishes regularly throughout the year.

The principal reasons for this difference are that by the Surya-Siddhanta the position of the sun's perigee-point is different from that assumed by the Ārya-Siddhanta, and that there is a difference in the two-year lengths.

239. I have stated above that this difference has only a very slight effect as regards the value of the tithi-index; its effect on the ordinary calculation of the nakshatra and lagnas must now be noticed. In so doing we take first the nakshatra and note the process by which those who have used the *Indian Galendar* have hitherto calculated its index.

Our method of computing the sun's true longitude, "s", by the system of the Indian Calendar has been to take the "c" found for the desired moment, that is to say, the value, in thousandths of the circle, of the sun's mean anomaly according to the Sūrya-Siddhānta, making this serve for both Siddhāntas;—to multiply this "c" by ten to get its approximate value in ten-thousandths;—to add to it a figure, 7207, representing the longitude of the sun's perigee-point (taken as 714xc3 by the Sūrya-Siddhānta) in A.D. 1100 plus an addition representing the sun's greatest equation of the centre (roughly 60.4, actually by the Sūrya-Siddhānta 60.4244)—an addition which is rendered necessary by the construction of the Tables in order to avoid the necessary for sometimes adding and sometimes subtracting the equation of the centre!;— to deduct from the result the figure representing this equation;—and so to obtain the sun's true

¹ See Indian Calendar, \$5 107, 108; pp. 60, 61.

longitude, "s". The tithi-index, "t" having been already found, we add "s" to "t" and find the makshatra-index "n" or the longitude of the true moon; this index shews in which makshatra she stands at the moment. The result is an approximation, but it is not close enough. If we are working for an Arya-Siddhanta date, we have used Sarya-Siddhanta values (which differ slightly), and we have arrived at the value of "s" in part by multiplying by 10 a value obtained in thousandths so as to be able to apply it to the other value, that of the moon, which has been obtained in ten-thousandths of the circle. This multiplication by ten creates a possibility of error not inconsiderable. Thus, if we have, in thousandths, the figure "c" = 623, this may stand for any value in ten-thousandths between 6225 and 6235, and may lead to a miscalculation amounting to anything under 10 units in our estimate of the nakshatra-index "a" and 10 units represent in time-valuation 39 minutes.

240. All these possibilities of error are entirely removed by the present Tables. The exact value of "s" by either Siddhänta is easily found—a value which we know to be absolutely correct—, and when we add this "s" to the already found "t" we know that the result gives the correct nakshatra-index; or at least that the only possibility of error lies in the value "t" found for the tithi.

241. These Tables will also be found very useful for calculating the lagua accurately. Hitherto our process for finding, in working for the lagua, the value of the sun's true longitude, "s", at mean sunrise of the day concerned has been the same as the not quite perfect process for finding the nakshatra. The present Tables give the exactly accurate "s" by sinher Siddhānta, and they give it in degrees, etc., thereby simplifying the calculation.

EXPLANATION OF THE TABLES.

242. Table XLIII. The details were worked out with great care by M. I. de Ries from the respective lengths of the sidercal solar year, i.e. the time taken by the true sun to travel from 0° to 0°, according to the several Indian authorities.

Table XLIV gives the sun's mean motion per day of 24 hours, and per hour, minute and second, for use in calculation. It is exact for the Ārya-Siddhānta, and may be used with care for other authorities, having regard to the footnote.

Table XLIVA. See the heading. It explains itself.

Table XLVA is for use in calculations. Every valuation given in the main Tables XLVIIIA and B in ten-thousandths of the circle was made by it.

Table XLVB is the reverse of XLVA.

Table XLVI is a revised nakshatra-Table, shewing the exact ending points of each.

Table XLVII is very important, being a revised Table of sines and equations of the sun's centre, given in full after particularly careful calculation. Its preparation is described below, §§ 249-253. The supplementary Table XLVIIA gives, for close work, very full details of the exact equations according to authorities other than the First Arya-Siddhanta; and of the differences, in seconds per minute of mean anomaly-arc, between the consecutive base-equations. Table XLVII, cols. 9, 10, may also be used for the Brahma-Siddhānta, but not Table XLVIIA.

Vables XLVIIIA and XLVIIIB are the main working Tables, shewing, by the First Aryanal Present Sarya-Siddhantas (with or without the bija), the precise value of the sun's true longitude (s) and equation of the centre at each interval of 24 hours measured from true Mesha-

The tithi-index, " t", gives the distance of true muon from true sun, i.e., shows the moon's phase or her true place with reference to the true sun. When this is added to the true sun's langitude, we have the true moon's place in the heavens, " a ", or the required makshatra-index.

samkranti, the moment when the true sun arrives each year at celestial longitude 0°; as well as the sun's mean anomaly and mean longitude. There was no possibility of framing a Table which should give these particulars for mean sunrise of each day, the primary requirement for the verification of Indian date; because the moment of true Mesha-ramkranti varies each year and the starting-point had to be from that moment. These two Tables therefore give the consocutive 24-hour positions of the mean and true sun after that moment.

Tables XLIX and L enable us to find the sun's true longitude at mean sunrise; the former giving for each group of days the sun's true motion per hour, and the latter giving his mean motion per minute. It is not necessary for general purposes to give his true motion per minute; if required, this can always be obtained by dividing by 60 the details of Table XLIX for one hour of the day.

243. Tables XLVIII to L are used in the following way, when we desire to find the "s" for mean surrise. Say that Mesha-samkranti occurred in the year for which we are working at 12^h 15^m after mean surrise. Then for every day of that year Table XLVIII-A or -B gives us his true longitude, "s", at 12^h 15^m after mean surrise; and to obtain the "s" at mean surrise on the day in question we have to deduct the sun's true motion during 12^h and 15^m. We do this by Tables XLIX and L, and so get the exact "s" for mean surrise on the day in question.

Table XLIX for hours is exactly correct for the Ārya-Siddhānta. When used for the Sārya-Siddhānta, there may be an error amounting, at the time of year when there is the greatest difference between the two authorities, to about one-third of a second per hour or about seven seconds per day. If anyone desires to be absolutely exact by the Sārya-Siddhānta, he should calculate the true sun's motion during the hours and minutes of the day in question by observing in Table XLVIIIB the consecutive 21-hour positions, "a" of the sun given in the Table for (i) the day in question and (ii) the previous day, and divide the difference by 24 for each hour's, and this result by 60 for each minute's, true motion. Even this, of course, is not mathematically exact, since the true motion of the sun varies from hour to hour; but it is quite accurate enough.

244. The calculation for the true longitude of the sun each day was made by ascertaining his mean anomaly and then using the sine-Table as finally prepared (Table XLVII) for finding the equation of the centre. The starting point for the year is the value of his mean anomaly at the moment of true Mesha-samkranti. This had to be computed with great care. The problem is fully discussed below, §§ 254-255.

245. To obtain a correct value of the sun's mean longitude at subrise of any day, take the value given in Table XLVIIIA or B, as the case may be, cols. 4, 7, and deduct for the intervening hours and minutes (§ 243, para, 1) the quantities shewn in Table XLIIV for the sun's mean motion. Greater accuracy even than this can be obtained by the use of Table XLIII.

246. I do not enter very fully into the difference in the sun's true longitude brought about, according to the Sūrya-Siddhānta, by the shift in the apsis of the sun's orbit, because this seems so slight that it may be ignored. It would amount to about 1° in the last 1500 years (see below, s. 254, ii).

USE OF THE TABLES. RULES.

- 247. That the use of the Tables may be thoroughly understood, I append a few rules of work and examples.
- (i) The nakshatra.—Work by the usual Indian Calendar process for finding "t" the tithiindex at mean sunrise of the day in question. Note the serial number of the civil day, ignoring altogether the day of the Hindu solar month. Deduct from this number the serial number of the day on which Mesha-samkranti occurred (Table I, or any of the similar general

Examples ero given below, viz. in "the Siddhanta-Siromani" section, Example 4 (p. 145), and in the section "First Arpa-Siddhanta, true system", Examples 4, 5 (pp. 239, 240).

working Tables below, col. 13). The result is the number of the day, or 24-hour period, referred to in col. 1 of the new Tables XLVIIIA and B. Remembering to use the proper Table for the Siddhānta concerned, turn to this number in either of those Tables. Against it in col. 9 will be found the correct value of the sun's longitude, "s" on that day at a moment as many hours and minutes after mean sunrise as elapsed between mean sunrise and the moment of Mēsha-sam-krānti at the beginning of the solar year (Table I or other general Tables, col. 17). Turn to Table XLIX for hours on the day in question and to Table L for minutes, and deduct from the "s" so obtained the values of the sun's motion during those hours and minutes (above, § 243). This gives the sun's exact true longitude at mean sunrise of the day in question. s + t = n, the nakshatra-index. For exact ending points of nakshatras, i.e. the points when the true moon passes out of each, consult Table XLVI. (Table VIII of the Indian Calendar or Table LXVIII below suffices except in very close cases.) Properly worked, the "s" so found yields the correct longitude of the true sun within the hundredth part of a second.

(ii) The tithi.—[This may be examined by the new Tables, though probably it will not be liable to change, or at any rate not to any change greater than one unit. Until some new Tables are published, we work for the moon's place by Prof. Jacobi's fixtures, and accept them.] The serial number of the day, or 24-hour period, being found as above, note against it in Table XLVIIIA or B, cols. 2, 3, the value of the sun's mean anomaly; and for the intervening hours and minutes deduct the sun's mean motion as given in Table XLIV, observing the remarks in the footnote to that Table. This gives the sun's mean anomaly at mean sunrise of the day in question in ten-thousandths of the circle. Take the value in thousandths of the circle by removing the decimal point one place to the left. Refer to Table VII, Indian Calendar, or Table LXVII below, and the corresponding auxiliary Table below each of these for correcting the "equation c" of the calculation, if it does not seem necessary to work with greater exactness than by use of units of about 4½ minutes.

We can find the equation more accurately as follows: -It has been noted in § 239 that, in order that "equation c" in the a, b, c system may always be additive, the quantity 60'4 was taken from "a" (the mean moon's distance from mean sun) and added to the equation of the centre. Hence we shall have the exact "equation c", if we deduct from 60'4 the amount of the equation (given in the new Table), when it is plus (+), and add to 60'4 the amount of the equation, when it is minus (-); the signs are given in the heading of cols. 6, 7, Tables XLVIIIA and B.

The equation can also be obtained with quite sufficient approximation by noting the difference between the equation of the day and the equation of the previous day (cols. 6, 7), dividing this difference by 24, and applying to the equation of the day the amount proportionate to the hours intervening from mean sunrise (see example given below, § 248, D.).

(iii) The lagna.—To find the time of rising of the named sign on the day concerned, calculate the "s" for mean sunrise as above explained, but this time use degrees, minutes and seconds (col. 8 of either Table XLVIIIA or B). Table XXII, Indian Chronography, gives the beginning and ending points of the named sign. Adding to these 360° if necessary, deduct from their value the value of s at mean sunrise. The result shows the distance from the sun at mean sunrise of the beginning and ending points of the sign. Multiply the degrees by 4 for minutes, and the minutes by 4 for seconds of time. The result gives the times of rising of the beginning and ending points of the named sign.

EXAMPLES OF WORK.

248. Given an inscription date to be examined, with the details Saka 1412, Friday, the day of Uttara Bhadrapada. Chaitra krishna 12, Mithuna lagna.

We first examine the date according to the Indian Calendar system and Tables; afterwards verifying, by the new Tables herein given, some of its important elements, such as the sun's mean anomaly, "c" the sun's equation of the centre and the value of "equation c", and the sun's true longitude, "s" at mean sunrise of the day of the date.

[Let it be remembered that Table I of the Indian Calendar, so far as regards calculation for the lunar tithi, uses the postulates of the Surya-Siddhānta to obtain results for both the Ārya and Sūrya-Siddhāntas—a course which is sufficiently accurate in most cases but not so in close cases. Its advantage is its simplicity.]

The year in Saka 1412 expired, or A. D. 1490-91. The day on which the lunnar tithi Chaitra krishna 12 expires will be about 25 days later than the day on which Chaitra sukla 1 expired. If found not to be so, calculate for a lesser or greater number of days.

(Table VIII). Tithi-index (t)=8808=Chait. kr. 12.

The day, measured from Jan. 1, was 106, which (Table IX) was 16 April 1490. The week-day, 6, was Friday. At mean sunrise that day the current tithi was Chaitra krishna 12. The nakshatra in which the true moon stood at that moment must now be found, also by the Indian Calendar rule.

With this value of a Table VIII shows that the true moon stood in the division of the heavens called "Uttara Bhadrapadā": the date therefore was perfectly sound.

It will now be shewn how the elements of the date may be more closely verified; and in the end it will be seen that according to the Arya-Siddhānta the nakshatra-index was really 9322, while by the Sārya-Siddhānta it was 9335. Though the differences here are not of great importance, it is manifest that in a close case they would be so, having the effect of placing the moon in a different nakshatra or of altering the number of the tithi current at sunrise, etc. The details of a date require careful examination whenever any final index is found to be close to the border-line between two tithis or two nakshatras or two signs of the zodiac.

A. Elements of the same date. "c" eqn.c", and "s" verified by the present Tables. (i)
The Arya-Siddhānta. Before entering on this verification it is advisable to work out the details
of the date by the special Arya-Siddhānta True System Tables below (Tables LXI-LXXV).

(Talbe LXI, cols. 19-25) . (Table LXIV, 25 days) .	Day. 81 . 25	Week-(2) (4)	63.8714	<i>b.</i> 433-0553 907-2906	c. 262-5194 68-4446
(Table LXVIA. Eqn. b) (Table LXVIIA. Eqn. c)	106	(6)	- 8529-6682 256-6185 7-5676	340:3459	330-9640
Table LXVIII. Tithi-index (t) For the nakshatra—			8793-8543	=Chaitra kr. 1	2.
(Above) c × 10 Constant .			3309·6400 +7226·3542		
Eqn. e			535·9942 —7·5676		
Sun's true long,, (Tithi-index (t), ab			528-4266 +8793-8543		
Nakshatra-index (The same		9322-2809		

A close examination of the results thus found, for the sun's mean anom., his true long., and the solar equation of the centre, can be made by the present Tables (XLVIIIA to L) thus—

The day of the date was, serially, 106 (i.e. measured from January 1st). Table LXI, cols.

Sun's mean anom., c.

13-17, shews that true Mesha-samkranti took place in the given year on Day 86 at 10^h 55^m after mean sunrise, 106—86=20.

Turning to the entry for Day 20 (Table XLVIIIA, col. I) it is seen (col. 3) that at 10^h 55^m after mean sunrise the sun's mean anom., c, was 3322·1148. Deduct|from this the sun's mean motion in 10^h 55^m by Table XLIV, viz. for 10^h 11·4074, and for 55^m 1·0457, total 12·4531.

Result for mean sunrise on Day 20, c = 3309·6617, or, as expressed in thousandths of circle instead of ten-thousandths, c = 330·9662.

Table XLVIIIA, col. 7, shews that at 10^h 55^m after mean sunrise on Day 20 the equation of centre and i.e. exactly 24 hours earlier, it had been 52·3832. The 24-hour difference, therefore, was 0·4836. A 24th part of this is 0·02015. Taking 10^h 55^m as 11^h, which will be sufficiently close, we have the difference for 11^h (0·02015 × 11 =) 0·2216. 51·8996 + 0·2216 = 52·1212. This was the actual equation of the sun's centre at mean sunrise on the day of the date. In our method of calculation by the general Tables "equation o" is the amount of the san's greatest equation of the centre less the actual equation. Here, the sun's greatest equation by the Ārya-Siddhānta being 59·6875, this amount less the actual equation, 52·1212, gives us "eqn. c" = 7·5663.2"

Table XLVIIIA, col. 9, shews that at 10^h 55^m after mean sunrise on Day 20 the sun's true longitude "s" was 540.6811 in ten-thousandths of the circle. Deducting from this the sun's true motion on Day 20 (Table XLIX, col. 6,) for 10^h, viz. 11.2059, and for 55 minutes (mean motion, Table L) 1.0457, total 12.2516, we have for the sun's true long. "s" at mean sunrise, 528.4295.3 If, desiring still greater accuracy, we had calculated for the sun's true motion in those 55^m instead of utilizing Table L which gives his mean motion in minutes, we should have found the result s = 528.4483.



As against 330-9640 found by the general verification work carried out before.

² As against 7-5676 by the other process.

As against 528-4266.

Another method for finding the value of "s" (when the value of the sun's mean anom. "c" and of the actual equation of the sun's centre are known) is the following. The sun's true long. "s" always = the long, of his perigee-point plus his mean anom. "c" plus or minus the actual equation of the centre. The long, of perigee-point according to the Ārya-Siddhānta is always 7166.6, in ten-thousandths of the circle. In the present case we have found "c" = 3309.6617 and the sun's equation (plus) 52:1212. Adding these three together and discarding one whole revolution (10,000) we have as result the sun's true long., "s" = 528:4495.

B. The same elements of the date verified by the present Tables. (ii) The Sürya-Siddhanta. The general results found by calculation by the ordinary process of the Indian Calendar have been given above in whole numbers. The indices found for mean sunrise on the day of the date were sun's mean anom., "c" = 332, "equation c" = 7, and sun's true long., "s" = 520. [Tables for the Sürya-Siddhanta based on circle-measurement and enabling calculation to be made with several places of decimals have not yet been prepared; but the work can be carried out by Prof. Jacobi's Tables in Vol. I of the Epigraphia-Indica, which are given in degrees, etc., the results being translated into circle-measurement by Table XLVA below.]

For verification of the results by the Sūrya-Siddhānta for the elements "c", "eqn. c", and "s" Table XLVIIIB is to be used just as Table XLVIIIA is used for the Arya-Siddhānta. Table I, Indian Calendar, shews that the moment of true Mēsha-samkrānti in the given year was 12^h 44^m after mean sunrise on Day 86 (after Jan. 1st). The day of the date was 106, and was 20 days after the day of true Mēsha-samkrānti. Table XLVIIIB gives us (col. 3) for the value of "c" at 12^h 44^m after mean sunrise on Day 20 the figure 3341-6212 in ten-thousandths of circle. Deduct (Table XLIV) the sun's mean motion during 12 hours, 13:6889, and, for the same during 44^m, 0:8365, total 14:5254. Result, "c" at mean sunrise on the given day, = 3327'0958, or in thousandths of circle 332.7096.

Table XLVIIIB, col. 7, shews that on Day 20 at 12h 44m after mean sunrise the sun's squation of centre and equation of the centre was 52:3475. On the previous day it had been at the same hour, 52:8500. The 24-hour difference was 0:5025, the average diff. per hour being 0:0209. Not to be tediously critical we take 12h 44m as 13 hours, and obtain the difference for 13 hours as 0:2722. This added to 52:3475 gives us for the sun's equation at mean sunrise 52:6127. This was the actual equation. The greatest equation of the centre by the Sūrya-Siddhānta is 60:4244. This less 52:6197 gives us the value of "equ. c" as 7:8047.

From Table XLVIIIB it is also found (col. 9) that at 12h 44m after mean sunrise on Day 20 (after true Mesha-samkranti) the sun's true longitude was 540-5000 in ten-thousandths of circle. Deducting from this, by Tables XLIX and L, the sun's true motion on that day for 12h and 44m, viz. 13-4471 and 0-8365, total 14-2836, it is determined that the sun's true longitude at mean sunrise of the given day was 526-2164. [As shewn above a still more accurate result can be obtained by calculation for true motion in 44m instead of for mean motion by Table L; but there is not much to be gained by enlarging on this here.]

Worked by the second process, described above in the section relating to the Arya-Siddhanta for finding the sun's true longitude the figures are—

Day 20. ⊙'s mean anom. " c" (above)	4	5	40	1 2	3327:0958
Sarya-Siddh. Long. of ⊙'s perigee-point 1	100				7146:5313
⊙'s equation of the centre (above)			the!		52-6197
⊙'s true long., " s "					526-2468

This was its value in A.D. 1400 (see § 254, ii, below). I have not thought it necessary here to take notice of the change in position of the point of the line of apsides which took place between A.D. 1400 (the base-year of Table XLVIIIB) and 1490, the year of the date under examination. The figure given, 7146-5313, is, in ten-shonandths of the circle, the longitude of the sun's perigee-point in A.D. 1400. In A.D. 1490 it was really 7146-6119.

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If now we take these results in thousandths of the circle instead of ten-thousandths and in whole numbers, viz. "c" = 333, "eqn. c" = 8, "s" = 526, and substitute them for the equivalent figures in the calculation made by the *Indian Calendar* system at the beginning of this section, it will be seen that by the *Sūrya-Siddhānta* the nakshatra-index, n, should be 9335 instead of 9328.

- C. The Yoga. By either Siddhanta.—The formula for this is 2 s+t, and, as the value of "s" has been correctly found by the above process, no further remark is necessary.
- D. The lagna. (i) By the Ārya-Siddhānta.—For this we have to find the correct value of "s" at mean sunrise in degrees, etc. By Table XLVIIIA, col. 8, the "s" for the day in our example above was 19° 27′ 52° 27. Deduct (Tables XLIX, L) for, on Day 20, 10 hours 24′ 12″ 29, and for 55 minutes 2′ 15° 52, total 26′ 27° 81. Then the "s" for mean sunrise was 19° 1′ 24″ 46. This was the true sun's longitude at that moment on the meridian of Ujjain. The given lagna was the sign Mithuna. The first point of this is 60°, the last 90°. We take the "s" as 19°, which is sufficiently exact. 60° 19° = 41° and 90° 19° = 71°. 41×4=164°, or 2°, 44°, (90° 19°)×4=284°, or 4°. The first point of Mithuna was 41° distant from the true sun at the moment of mean sunrise, the last point 71°. Mithuna was lagna between 2° 44° and 4° 44° after mean sunrise on the given day.
- (ii) By the Sūrya-Siddhānta. "s"=(Table XLVIIIB) 19° 27′. 28″-80. Deduct for 12 hours (Tables XLIX, L) 29′ 2°·74 and for 44 minutes 1′ 48″-42, total 30′ 51″-16. Remainder, or "s" for sunrise, 18° 56′ 37″-64. We may call this 19°, and come to the same result as in the former case. The lagna of Mithuna really began twelve seconds later.
- (iii) By the Indian Calendar process, and for both Siddhantas.—Here "s" was found to be in ten-thousandths, 520. Converted by Table VIIIB, this=18° 45'. This was the sun's true longitude at mean sunrise. The difference between the actual time of the lagua of Mithuna and that found the Indian Calendar is slight.

More accurately worked, the first point of Mithuna was lagna by the Arya-Siddhānta at 2^h 43^m 56°, by the Sūrya-Siddhānta 2^h 44^m 16°, and by the Indian Calendar 2^h 45^m, after mean sunrise on the day in question.

CONSTRUCTION OF THE TABLES.

A detailed explanation is here given of the construction of the principal Tables, in order to satisfy experts as to their accuracy.

- 249. The Hindu Sine-Table.—The Sūrya-Siddhānta (ii, 34) gives in minutes the sines of a series of angles, each separated from the other by 3° 45′, twenty-four of these completing the quarter-circle of 90°. These values stand, so far as I can ascertain, for all Indian authorities except the Brahma-Sidhānta, which assumes different sine-values. There is no need here to discuss their exact accuracy, as I am concerned solely with chronography as the handmaid of history, and have nothing whatever to do with the easting of horoscopes or any other branch of astrology. The sines, as used in calculations by authorities other than the Brahma-Siddhānta, are given in Table XLVII, col. 3, and the differences between them, in minutes, in col. 4. For astronomical purposes the several angles are angles of a planet's mean anomaly, and are so applied to the mean anomaly of both sun and moon.
- 250. The equation of the centre.—For the preparation of the sine and equation Table (XLVII) the equation of the sun's centre for each base-angle of anomaly has been calculated from its sine-value by the proper formula for each Siddhanta, the calculation being carried to nine

decimals of a second in order to insure absolute accuracy for the tabulated two decimals. The details for the First Ārya-Siddhānta (Table XLVII, cols. 5, 6) are complete in themselves; details for the other authorities are given in full in a supplementary Table (XLVIIA). Table XLVII differs a little, but only in one or two places, from Jacobi's Table XXIV (Epig. Ind. I, 459); I have, however, thought it advisable to record two decimals of seconds in all cases.

251. Equation of centre.—In Hindu astronomy the sun is treated as a planet, and in all planetary movement a fundamental principle (Jacobi, Epig. Ind. I, 441) is contained in the proportion—sin, equation; sin, mean anomaly: minutes in the epicycle: minutes in the orbit. The minutes in the sin, anomaly are given in Table XLVII; the minutes in the epicycle are ascertained from statements made in each Siddhānta; the minutes in the orbit of 360° are always 21600°. The formula then for all authorities, a being the angle of mean anomaly, is:

Equation centre¹ =
$$\frac{\text{minutes in epicycle}}{21600'} \times \sin \alpha$$
.

252 A. The First Arya-Siddhānta gives for the dimension of the epicycle 13° 30′ or 810′. Hence by that authority:

Equation centre =
$$\frac{810}{21600}$$
 sin. $a = \frac{3}{80}$ sin. a .

Since there are 3° 45′ between each base-angle, the difference in minutes between each is 225′, and the measure of first or average difference of equation for each intermediate minute of anomaly is the difference between two consecutive equations divided by 225. Taken in seconds, this difference is given in col. 6. Multiply the minutes of difference between the base-angle and the given anomaly-angle by the amount given in col. 6, and, taking the result in seconds, apply it to the base-equation, and you have the correct equation for the given anomaly-angle.

For an example take the 2nd and 3rd sines. The 2nd sine, i.e. of anomaly-angle 7° 30', is 449'. Multiply by 3 and divide by 80. Result 0° 16' 50" 25.

The 3rd sine, of anomaly 11° 15', is 671'. Multiply by 3 and divide by 80. Result 0° 25' 9".75.

The difference between the two results is 8' 19".50. This is the total difference in 225' which is the difference between the two anomaly-angles. 8' 19".50 divided by 225 gives for each minute of angle the increment 2".22.

B. Equation of the centre by the Sürya-Siddhanta.—This calculation is made on the same fundamental principle.

The $S\bar{u}rya$ - $Siddh\bar{u}sta$ (cf. Jacobi, above, I, 441) assumes a contraction of the epicycle amounting to 20' at the end of each of the odd quadrants. If this contraction at any point is called q, we have $q:20':\sin a:\sin 90^\circ$. $\therefore q=20\frac{\sin a}{\sin 90^\circ}$. Sin. $90^\circ=3438'$ (Table XLVII).

Hence $q = \frac{20'}{3438'}$ sin, a. The Sürya Siddhänta gives for the dimension of the epicycle 14°.

Hence the formula for the equation without the contraction would be $\frac{14'}{360'}$ sin. α . With the

contraction it is $\frac{14'}{360'}\sin_* a - \frac{20'}{3438'} \times \frac{21600'}{31600'}\sin_*^2 a$; or, finally $\frac{14}{360}$ sin. $a - \frac{\sin^3 a}{3713040}$. The best authorities agree that this is the correct formula.

When an angle is very small, as is the case with even the greatest of the equation-angles, which is only about 2° 10', the sine is taken to be equal to the arc. Hence the presumed equality in the text of "sin, equation" and "equation centre." Table XLVIi shows that the sine of 3° 45' is 225', the same as the arc. The sine of 1° is 60', also the same as the arc.

Each equation for the several base angles has been calculated by this formula and fully worked out for nine decimals of a second. The results are given in full in Table XLVIIA, col. 7, and in abbreviated form in Table XLVII, col. 7. The difference in equation per minute of anomaly-are has been calculated by dividing the difference between consecutive base-equations in minutes by 225, and taking the result in seconds. This is tabulated in full in Table XLVIIA, col. 8, and in abbreviated form in Table XLVII, col. 8.

- 253 C. Equation of the centre by the Second Arya-Siddhānta and Siddhānta-Ŝirōmani.— The same fundamental principle holds good. The epicycle is (Epig. Ind. I, 341) 13° 40' or 820'. There is no contraction. Minutes in the orbit, 21600'. Hence the equation is
- $\frac{820}{21600}$ sin, α , or $\frac{41}{1080}$ sin, α . The entries are made in abbreviated form in Table XLVII, cols. 9, 10, and in full in Table XLVIIA, cols. 9, 10.
- 254. The sun's mean anomaly, and the starting-point for its valuation.—The sun's daily mean motion, i.e. his mean motion in 24 hours, is given according to the several Hindu authorities in Table XLIII, so that, given his exact mean place at the moment of true Meshasamkrnānti when the true sun was at 0°, his mean position at the end of every 24-hour period is obtained by simple addition. We must, therefore, fix with great care the value of his mean anomaly when the true sun was at 0°.
- (i) By the First Ārya Siddhānta.—S. B. Dikshit's valuation of the equation by this Siddhānta, 2° 6′ 59° 9421, was a trifle too great. Dr. Schram's, 2° 6′ 57° 323495, is exact down to the fifth decimal. M, de Ries with almost painful accuracy has carried it as far as sixteen decimals of a second. Tested by the sine table, his valuation is found exact. The equation (I give nine decimals of a second, the amount which I have generally used in these calculations) is + 2° 6′ 57° 323494885, or, in 10,000ths of the circle, 58′775644170. This is correct for the corresponding mean longitude value 357° 53′ 2° 676505115, or 357° 53′ 044608419, or in 10,000ths of circle, 9941°224355830, the two added together amounting to exactly 360°. Thus, the perigee-point of the orbit being by this Siddhānta fixed at 258°, or, in 10,000ths of the circle, 7166°6, we have found the sun's mean anomaly at true Mēsha-sanikrānti to have been 99° 53′ 2° 676505115 or 90° 53′ 044608419, or in ten-thousandths of the circle, 2774·557689163 (i.e. 9941°224355830—7166°6). This then is our starting-point for cols. 2, 3, 4, 5, of Table XLVIIIA.
- (ii) By the Present Surya Siddhanta.—In this case we have to deal with an authority which postulates a slight movement in the line of apsides of the sun's obrit, the apogee and perigee-points moving eastwards at the rate of 0°-1161 per ann.; and before working for a correct valuation of the sun's mean anomaly at true Mēsha-samkrānti in any year, we have first to decide which year to select as base of operations. I have chosen the year K. Y. 4500 or A.D. 1393-1400, roughly A.D. 1400, for reasons which follow. The period covered by Indian Epigraphy, the historical period, that is, of Indian History, may be taken as the period K.Y. 3500 to 5000, A.D. 400 to 1900, or the last 1500 years, the bulk of the inscriptions belonging to the last millennium K.Y. 40 0 to 5000 or A.D. 900 to 1900. I take the central year of this millennium as my base. In K.Y. 4000 the perigee-point was at 257° 15′ 32″4, and in K.Y. 5000 it was at 257° 17′ 28″5. Hence in K.Y. 4500, say, A.D. 400, it was 257° 16′ 30″45, or, in 10,000ths of the circle, 7146·53125. The difference in the sun's equation of the centre and true longitude, caused by this shift of the apsin, is exceedingly small and may well be ignored.

For we are concerned only with the period A.D. 400 to 1900; and calculations by the equation-table on the value of the sun's mean anomaly at the beginning of the Hindu solar

year A.D. 400-01 and at the beginning of A.D. 1900-01, allowing for the shift of the perigeopoint, proves that the total difference in the equation in the whole period of 1500 years was 1"0739. This constitutes also the total difference in the sun's true longitude, which is his mean longitude the equation, the mean longitude remaining the same whatever may be the shift in the line of apsides.

To assist those interested, however, I append a Table shewing the cumulative change of position of the apsidal points.

The annual shift is a forward one, and, as the longitude of perigee increases, so the mean anomaly decreases. Hence for years earlier than K.Y. 4500, A.D. 1400, the amounts entered in col. 3 must be added to, and for years later deducted from, the sun's mean anomaly as found by calculation.

Change of position of sun's apsidal points according to the Present Surya-Siddhanta.

No. of Years.	Cha	nge.	No. of Years.	Cha	ngo.	No. of Years.		Chan	ge.
1	2	3	1	2	3	- 1		2	3
	19	10,000ths of circle.		"	10,000ths of circle.		*	"	10,000th of circle
1	0.1161	0.0009	10	1.161	0.0090	100	0	11.61	0.089€
2	0-2322	0.0018	20	2-322	0.0179	200	0	23-22	0.1792
3	0.3483	0.0027	30	3.483	0.0269	300	0	34.83	0.268
4	0.4644	0.0036	40	4.644	0.0358	400	0	46.44	0.358
5	0.5805	0.0045	50	5.805	0:0448	500	0.	58.05	0.447
6	0:6966	0.0054	60	6.966	0.0537	600	- 1	9.66	0.537
7	0.8127	0.0063	70	8-127	0.0627	700	1	21.27	0.627
8	0.9288	0.0072	80	9:288	0.0717	003	1	32.88	0.716
9	1.0449	0.0081	90	10:449	0.0806	900	1	44-49	0.806
n'i us	STATE OF		10 4		Anna I	1000	1	56-1	0.898

255 Dr. Schram's valuation of the equation of the centre according to the Arya-Siddhānta was proved to be so accurate that we need not have any hesitation in accepting his similar valuation of the same by the Sürya-Siddhānta. He fixes this for K.Y. 4000 as 2° 8′ 18″-472169, and for K.Y. 5000 as 2° 8′ 19″-1842321. The equation, therefore, in K.Y. 4500, the base-year of my Table, was 2° 8′ 18″-828200553, or in ten-thousands of the circle 59·404538584.

The sun's mean anomaly at the mement of true Mesha-samkranti is 360° less the combined longitude of perigee and equation of centre, or 360°-(257° 16′ 30″45 + 2° 8′

18" 828200553). The mean anomaly was therefore 100° 35' 10" 721729447, or 100° 35' 178696657' or in ten-thousandths of the circle 2794 064211415. This is the valuation which I have adopted for the starting-point for cols. 2, 3 of Table XLVIIIB.

The sun's mean longitude at the same moment, true Mesha-samkranti, is his mean anomaly plus the longitude of perigre, i.e. 100° 35′ 10″ 721799447 + 257° 16′ 30″ 45. It was, therefore, 357° 51′ 41″ 171799447, or in ten-thousandths of the circle 9940 595461415. Table XLVIIIB, cols. 4, 5, start from this point.

256. In calculating the true sun's correct longitude and equation for each day for the preparation of Tables XLVIIIA and B I have obtained the equation by using the first or average difference in seconds as given in Table XLVII, cols. 6, 8, for each minute of anomaly-angle between the base-angle of the Table and the given angle, in the belief that this represents the practice of the Hindus in bygone centuries. It is possible to calculate with still greater minuteness. We might perhaps be able, by use of some complicated formula, to find out a more exact value of the difference in seconds applicable to the anomaly-angle under consideration; but this system would be so troublesome that it may be reasonably assumed to have never been adopted.

256 a. An example will best illustrate how each calculation for the 24-hour periods given in Tables XLVIIIA and XLVIIIB was made. The value of the equation is based on the angle of mean anomaly, "c" given in col. 2. The base-equation used is that for the base-angle next lower in the sine-table (XLVII, col. 5 or 7), the increment in the equation far the difference in angle between the base-angle and the given angle of anomaly being found by multiplying that difference in minutes and decimals by the amount given (col. 6 or 8) in sec nds (this being the equation-difference per minute of anomaly-difference). The increment is added to or subtracted from the base-equations according as the consecutive base-equations are increasing or diminishing. The result is the exact equation for the given a omaly-angle, and this is entered in Table XLVIIIA or B, cols. 6, 7. This equation is added to or subtracted from the mean longitude of the sun (Table XLVIIIA or B, cols. 4, 5), and the result is the sun's true longitude, "z" (cols. 8, 9). The heading of the sine-Table (cols. 2, 11) shows whether the equation is plus or minus.

For an example I take Day 27 and work by the Arya-Siddhānta, using only the number of decimals given in my Tables.

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Mean anomaly (Table XLVIIIA, col. 2) Next-lower base-anomaly (Table XLVII, col.	. 2)	*:	0.7 (0.0)	126° 29° 72124 123 45
Difference	(4)	•		2° 44′-72124
2° 44'=164'. The multiplier per minute of diffe 164'·72124×1"·31=215·7848244. 215"=3' 35".			6) 1"	31,
Base equation for anomaly 123° 45′ (Table 2 Difference in equation above found, deducted values in col. 5 are diminishing	ed beca		0 (0)	1° 47′ 12″·75 3 35 ·7848244
Exact equation for given anomaly .				1° 48′ 36″-9651756
Sun's mean longitude (Table XLVIIIA, col.	4)			24° 29′ 43′-27
Equation found (for sign column-heading)				+1 43 36 97
Exact value of sun's true longitude, " ; "				26° 13′ 20′-24

This is converted into 10,000ths of the circle by Table XLVA, and both values are entered in cols. 8, 9, of Table XLVIII. Work by the other Siddhāntas is precisely the same, the base-equations and multipliers being used, each set for its own anthority.

In this way every figure of equation and true longitude has been worked out for every day of the year.

In applying these results to inscription-dates we calculate the "s" for mean sunrise as described above, § 238.

If anyone should wish to calculate with a greater number of decimals than the four given in the principal Tables he can work as follows. In § 254 above I have given by both the Siddhāntas, with nine decimals of a second, the exact mean anomaly of the sun and mean longitude at true Mēsha-samkrānti each year. Add for the intervening days, i.e. from the day on which Mēsha-samkrānti occurred down to the day in question (included), the quantity obtained by multiplying the figures given for one day in Table XLIII by the number of intervening days. This gives, with eight decimals of a second, the value of mean anomaly and mean longitude for the day. In calculating for the equation note that the base-equations according to the Ārya-Siddhānta are complete as given in Table XLVII. They are given in full for the other authorities in Table XLVIIA.

TABLE XLIII.

MEAN MOTION OF THE SUN IN THE ECLIPTIC according to the several Hindu astronomical authorities.

(Details worked out by M. Louis de Ries.)

Serial number as in Table XXXVII of "Indian Chronography."	Hindu authority,	Per Day of	f 24 hours.	Per H	our.
		Parts of degrees,	10,000ths of circle.	Parts of degrees.	10,000ths of circle.
				0 "	
5, 6	Original Sürya-Siddhanta. Utpa- la's Paulisa-Siddhanta.	59 8-16961,948	27-37785,2002	2 27-84040,081	1-14074,3833
7	First Arya-Siddhānta (the Aryabhatiya).	59 8-17029,407	27-37785,7207	2 27-84042,892	1-14074,4050
8, 13	Brahma-Siddhanta. Siddhanta- Širčmaņi.	59 8-17265,515	27-37787,5426	2 27-84052,989	1-14074,4829
9	Parāšara-Siddhāsta	59 8-17013,667	27-37785,5993	2 27-84042,236	1-14074,4000
10	Second Arya-Siddhanta	59 8-17019,963	27-37785,6479	2 27-84042,498	1-14074,4020
11	Rājamrigānka	59 8-17019,064	27-37785,6409	2 27-84042,461	1-14074,4017
12	Present Sārya-Siddhānta (with or without the bija).	59 8-16955,652	27-37785,1516	2 27-84039,819	1-14074,3813
100	Hindu authority.	Per n	ninute.	Per sec	ond.
		Parts of degrees.	10,000ths of circle.	Parts of degrees.	10,000ths of circle.
		R		*	
5, 6	Original Sürya-Siddhānta. Utpala's Pauliša-Siddhānta.	2-46400,6680	0-01901,2397	0-04106,6778)
7	First Aryn-Siddhanta (the Aryabhafiya).	2-46400,7149	0-01901,2401	0-04106,6786	
8, 13	Brahma-Siddhānta. Siddhānta- Siromayi.	2-46400,8788	0-01001,2414	0-04106,6813	
9	Parasara-Siddhanta	2-46400,7039	0-01901,24000	0.04106,6784	0-00001,6873
10	Second Arya-Siddhantu	2-46400,7083	0-01901,24003	0-04106,6785	
11	Rājamrigānka	2-46400,7077	0.01901,24003	0-04108,6785	
12	Present Sürya-Siddhünta (with or without the bija).	2-46400,6636	0-01901,2397	0-04106,6777	

TABLE XLIV.

THE BUN'S MEAN MOTION

per civil day of 24 hours, hour, minute and second, according to the First Arya-Siddhanta, but generally applicable to all the Indian astronomical Siddhāntas (see foot-note).

	Colle	setive	increase day.	Collective increase per civil day.	Coll	Collective increase per hour.	crease	per		Collect	Collective increase per minute.	e bor	minute.			Collect	Collective increase per second.	ad oss	r second,	
No.	Q	egroe	Degrees, etc.	10,500ths of circle.	No.	Degrees, etc.		10,000thr of circle-	No.	Degrees, etc.	10,000ths of circle.	No.	Degrees, etc.	10,000ths of circle.	No.	Degrees, etc.	Degrees, 10,000ths of of ote. eirele.	No.	Degrees.	10,000ths of olrele.
I	0	10	b		İ	"	1		1	# "									. 11	
-	0	92	8-17	27.3779	-	2 27-84		1-1407	4	0 246	0610-0	31	1 16-38	0.5804	700	10-0	0.0000	3	1-27	0.0098
04	-	289	16.34		. 69	4, 55-68		2.2815	es	0 4-93	0-0380	01	1 18-85	1809-0	:01/	80-0	9000-0	65 65	1:31	1010-0
00	01	57	24-51	82-1336	100	7 28-59		34999	00	0 7.39	0.0570	55	1 21-31	0.6274	07	0.12	0100-0	533	1-30	0.0100
.4	40	200	32-68	_	-	9 51:36		1-3630	+	98-6 0	0-0160	34	1 23-78	0.6464	7	91-0	0.0013	34	1-40	0.0108
10	7	22	40-85	-	10	12 19-20		5-7037	10	0 12:32	0.0951	32	1.26-24	1-299-0	9	0.21	0.0016	35	771	0.0111
9	10	20 24	49-02		9	14 47-04		6-8445	9	0.14.78	0-1141	36	1 28-70	0.6844	10	0.35	6100-0	36	7	0-0114
1		6 :53	61-19	191-6450	1	17 14-88	- 0	7-9852	-	0 17-29	0-1331	17.	1.31-17	0.7035	1-	0.29	0-0022	52	1.52	0.0117
œ		7 53	5.36	210-0220	00	19 42-72	100	0-1280	00	0 19-71	0-1521	888	1 33-63	0-7225	30	0.33	0.0025	38	1.56	0.0120
9	107	8 52	13-53	246-4007	6	99 10-56	_	10-2667	6	0 22.18	0-1711	38	1 36-10	0-7415	6	0.37	0-0020	39	1.60	0.0124
1.0		9 51	21-70	973-7780	10	24 38-40	_	11-4074	10	0 94-64	0.1901	9	1 38-56	0.7605	10	0-41	0.0032	40	197	0.0127
11	-	10 50	0 29-87	301-1564	=	9 25	6-24	12-5482	11	0 27-10	0-2001	4	1 41-02	0-7795	=	0-42	0-0032	#	89-1	0-0130
10	_	11 49	38-04	328-5343	21	20 34	34-09	13-6889	62	0 29-57	0-2281	42	1 43-49	0.7985	21	048	0.0038	2	172	0-0133
13	-	12 48	8 46-21	1220-0121	13	32 1.	1.93	14-8297	55	0 32-03	0-2472	43	1 45-95	0-8175	133	0.63	0.0041	53	11.11	0-0136
14	-	13 47	7 54.38	8 383-2900	I	34 20	20-77	15-9704	7	0 34-50	0-2662	#	1 48:42	0-8365	14	0.57	0.0044	#	18-1	0-0139
15	11	47	2.55	6 410-6079	12	36 57	19-	36 57-61 17-1112	12	96-96 0	0-2822	9	1 50-88	0-8556	12	0-62	0.0048	9	1.85	0.0143

_		_	_	-								_	_	_	_	_	_	_		
0-0146	0-0149	0-0152	0-0155	0.0158	0-0162	0-0165	0-0168	0.0171	0.0174	0.0177	0.0181	0.0184	0.0187						L	
1.89	1.93	1-97	2.01	2.02	5:00	3:14	2.18	60.00	9.20	2.30	10:01	9:38	2.42							
99	Ç	\$	69	20	21	010	53	古	13	92	52	28	239							
0.0051 46	0-0054	0-0057	0900-0	0.0063	2900-0	0.0070	0-0073	0.0076	0.0079	0.0082	0800-0	0.0089	0.0092	0-0092						
99-0	0.70	0.74	0.78	0.83	98-0	0.00	16-0	0.99	1.03	1-07	1-11	1-15	1.19	1-93						
16	11	8	119	8	133	81	83	24	97	26	27	8	81	38						
0.8746 16	0-8936	0-9126	0.9316	0-9206	9696-0	0.9886	1-0077	1-0267	1-0457	1-0647	1.0837	1-1027	1-1217							
1 53-34	1 55-81	1.58-27	2 0.74	2 3.20	2 5-66	2 8-13	2 10-59	2 13.06	2 15-52	2 17.08	2 20-45	2 22.91	2 25-38							
46	47	8	67	99	10	0.0	533	54	12	959	57	80	29	- 17						
0.3042 46	0.3232	0-3422	0.3612	0.3802	0-3993	0-4183	0-4373	0-4563	0-4753	0-4943	0.5133	0.5323	0 5514	0.2704				H		
0 39-42	0 41-89	0 44-35	0 46-82	0 49-28	0.51-74	0.54-21	0 56-67	0 59-14	1 1-60	1 4-06	1 6-53	1 8.90	1 11-46	1 13-92						
91	11	38	61	98	51	03	83	줐	贸	26	27	88	65	30	П					
18-2519 16	19-3926	20-5334	21-6741	22.8149	23-9556	25-0964	26-2371								F			T		
39 25-45	41 53-29	44 21-13	46 48-97	49 16-81	51 44-65	54 12:49	56 40-33													
16 3	11	18	119	200	12	200	87	-	-	+6	241	-	-	-	W	_	-		1	-
	1.0		1981	100	6	15	NO.	-	021	-	100	_	-	7.5	920	-	-	-	-	-
438-0457	465-4236	492-8014	520-1793	547-5571	574-9350	602-3120	529-6907	657-0686	681-1464	711-8243	789-2021	766:5800	198-9579	821-3357	148-713	2.37-7857	5475-5714	8213-3572	9992-9179	1
10.72	18-90	27-07	35-24	43:41	89-19	59-75	7-92	16-09	24.26	22-43	40.60	48-77	26-94	5-11	13-28	37-03	14-06	60-19	44 42:16	
40	45	44	43	약	7	40	40	39	8	37	98	33	34	25	33	33	1 7	9 40		
15	16	17	81	10	30	55	81	88	21	155	8	25	St	8	98	88	197	2902	320	
91	11	18	13	8	22	55	104	2	25	26	27	84	65	30	31	100	200	300	365	

Note .- The Table figures are calculated by the Firet Arya Sidilhanta. The difference between these and the same according to the Present Strya-Siddhanta, Siddidata-Sivomani the difference amounts to 0.- 86 or (in 19,000ths of the circle) 0.0066, by which these are greater than the figures given, their total for 365 days being 359°44'43" O2 or (in 10,000ths of the circle) 9992-9245. It is not necessary for historical purposes to trouble about the Original Partieurs and Second Arya-Siddhantas and the Rajamrigiaka is negligeable. For the total of 365 days according to the Brahma-Siddhanta and Sarya- or Paulifia-Siddhanta. Any one desiring to do so can calculate them from Table XLIII.

TABLE XLIVA.

Longitude of Sun's apsis (Perigee) and equation of centre at different millenniums, according to the Hindu standard authorities.

[Position of apsis is given according to Jacobi, Epig. Ind. 1, 440, 450; the equation has been calculated by Dr. Schram.]

li k	First .	Arya-Side	lhàs	ta (A	ryah	hafi	ya).		1	resent	Str	ya-Sid	dhànt	10	
Kali- yuga.	hristian year roughly)	Long. of apsis (pe	sur	n'a en)-	Succent	re :	equation of at true Mësha- mkranti.	Kali- yuga.	year (roughly)	Long	, of a	eun's geo).	Sucenti	e a	equation of t true Mësha- mkranti.
	B.C.					1	2		B.C.	0	3			101	
0	3100)						0	3100	257	7	48-0	2	8	15-623883311
1000	2100							1000	2100	257	9	44-1	2	8	16-335959734
2000	1100							2000	1100	257	11	40-2	2	8	17-048032824
3000	100	258	0	0	2	6	57-323494885	3000	100	257	13	36-3	2	8	17-760102582
	A.D.								A.D.						
4000	900							4000	900	257	1.5	32-4	2	8	18-472169007
5000	1000				1			5000	1900	257	17	28.5	2	8	19-184232099
Ī		Brai	hma	Sidd	hānt	п.		17, 17		Siddhi	î»ta-	Śirōm	agi.		
	B.C.			T					B.C.		F				
0	3100	257	45	36	2	8	26-527631345	0	3100	257	45	36	2	8	26-527631345
1000	2100	257	48	0	2	8	27-432241607	1000	2100	258	3	0	2	8	33-086055747
2000	1100	257	50	24	2	8	28-336851869	2000	1100	258	20	24	2	8	39-6444-80150
3000	100	257	52	48	2	8	29-241462132	3000	100	258	37	48	2	8	46-202904552
	A.D.								A.D.						
4000	900	257	55	12	2	8	30-146072394	4000	900	258	8 55	12	2	8	52-761328955
5000	1900	257	57	36	2	8	31-050682657	5000	1200	251	12	36	2	8	59-319753357
		Second	Ar_{i}	ya-Si	idhā	nta.									
	B,C.			T	1	Ī	10.00								
0	3100	257	45	36-0	2	8	26-527631345								
1000	2100	257	47	54-3	2	8	27-396434118								
2000	1100	257	50	12-6	2	8	28-265236890								
3000	100	257	52	30-9	2	8	29-134039663								
2	A,D.				1										
4000	900	257	54	49-2	2	8	30-002812436	1							
5000	1900	257	57	7.5	2	. 8	30-871645209								

TABLE XLVA.

FOR CONVERSION OF DEGREES, MINUTES AND SECONDS INTO MEASUREMENT BY 10,000 THE CIRCLE.

-		DEGI	cos (+)				MINUTE	s (·)		SECONI	a (•)	DEC	MALS OF (")
No.	10,000ths of circle.	No.	10,000ths of circle.	No.	10,000ths of circle.	No.	10,000ths of circle.	No.	10,000ths of circle.	No.	10,000ths of circle.	No.	10,000ths of circle.	No.	10,000ths of circle.
1	27-7	46	1277-7	01	2527-7	1	0-1629	31	14-3518	1	0-007,716,049	31	0-230,107,531	0-1	0-000,771,665
2	55-5	47	1305-5	92	2555-5	2	0-925	32	14-814	2	0-015,432,009	32	0-246,913,580	0-2	0-001,548,210
0	83-3	48	1333-3	93	2583/3	3	1:38	33	15:27	3	0 023,148	33	0.254,629	0.3	0.002.3148
14	111-1	49	1361-1	94	2611-1	4	1.851	34	15-740	4	0-030,864,107	34	0-262,345,679	0-4	0.000,050,420
5	138-8	50	1388-8	95	2638-8	5	2:3148	35	16-2037	3	0-038,580,247	35	0-270,061,729	0-5	0-003,858,175
0	100-0	51	1416 6	96	2066-6	. 0	2.7	36	16-6	6	0-046,29	36	0-27	0-6	0-004,629
7 8	194-1	52	1472-2	97	2594-4	7 8	3-2407 3-703	37	17-1296 17-502	3	0-054,012,346	37	0-285,493,827	0.7	0-005,401,235
		54	1500	99	2750	9	4:16	39	18-05	8	0-0694	38	0-293,200,877	0-8	0-006,172,840
10	277-7	55	1527-7	100	2777-7	10	4-629	40	18-518	10	0-077,160,494	40	0.308,641,975		0 000,14
11	305-5	56	1555-\$	110	8055-5	11	5-0925	41	18-9514	11	0-084.876,543	41	0-316,358,025		
12	333-j	57	1583-A	120	3333-3	12	5-5	42	19-4	12	0-0925	42	0-324,07	16	
10	361-i	58	1611-1	130	3611-1	13	6.0185	43	19-9074	13	0-100,308,642	43	0-331,790,124		
14	388-8	50	1638-8	140	3888-8	14	6-481	41	20-270	14	0-105,024,691	44	0-339,506,173		
15	416-6	60	1600-8	150	4166-6	15	6.94	45	20-83	15	0-1151740	45	0-3472		
16	614-6	61	1694-4	160	4444-4	16	7-402	46	21-296	10	0-123,456,700	46	0-354,938,272		
17	479-2	62	1728 2	170	4792-5	1.7	7-8703	47.	21-7502	17	0-131,172,840	47	0-362,654, 321		
18	500	63	1750	180	3000	18	8-3	48	20.2	18	0-138	48	0-370		
20	527-7 555-5	04	1777-7	190	5277-7	19	8.7012	49	22-6851	10	0-146,004,088	49	0-378,086,420		
20	583-5	65	1805-5	200	5555-5 5823-3	20	0.259	50	20-148	20	0-154,320,988	50	0-385,802,469		
000	611-1	67	1861-1	220	6111-1	22	9-72	51	24-074	22	0-162,037	51	0-393,518		
23	638-8	88	1885-8	200	6388-8	23	10-6481	53	24-5370	23	0-177,402,136	52	0-401,234,568		
24	866-6	60	1916-6	240	6666-6	24	11-1	54	25	24	0-185	54	0-416		
25	604-4	70	1944-4	250	6944-4	25	11-5740	55	25-4620	25	0-192,001,235	55	0-424,382,716		
26	722-2	71	1972-2	260	7222-2	26	12-037	56	25-925	26	0-200,617,284	56	0-432,098,768		
27	750	72	2000	270	7500	27	12-5	57	26-38	27	0-2083	57	0-439,814		
28	777-2	78	2027-7	280	7777-7	28	12-962	58	26 851	25	0-216,049,383	58	0-447,530,864		F-1414
20	805-5	74	2055-5	290	8055-5	29	13-4259	50	27-3148	29	0-223,765,432	59	0-455,246,914		
30	833-1	75	2083-3	300	8333-3	30	13-8	60	27-7	30	0-231,48	60	0-1629		/TTT
32	861-j 888-š	76	2111-1	310	8611-1									В	
83	916-6	77	2138-8 2166-0	320	8888-8										The state of
34	944-4	79	2194-4	340	9165-6 9141-1										
35	972-2	80	2020-0	350	9799.9						the same				
36	1000	81	2250	360	10,000				1000		7				
87	1027-7	82	2277-7		THAT THE		132								
. 38	1055-5	83	2305-8						1 54						
39	1083-3	84	2833-3												a de
40	1111-1	85	2361-1	13		- Vi	100	(E.)	100		TOUR.			-ji	
41	1138-\$	86	2388-8	1									-	1	The state of
42	1166-6	87	2416-6	1 8							dy				
43	1194-4	88	2414-4	1											
44	1222-2	89	2472-2		FILE										
45	1250	90	1250				1								

TABLE NLVB.

FOR CONVERSION OF MEASUREMENT BY 10.000THS OF THE CHICLE INTO MEASUREMENT BY DEGREES, MONUTES AND SECONDS (0 / ")

EUR WOS	FH9355000	-	CATALOGICA CONTRACTOR	AND SECO	SDS	(0	' ")								_	
10,000tha of circle.	0 /	10,000th of circle.	.01	10,000ths of circle.	0		#	te,cooths of circle.	0	9	100	10,000ths of circle.	0	,	.11	
1000	36 0	100	3 36	1	0	2	9-6	41	1	28	33-6	.81	2	54	57:0	
2000	72 0	200	7 32	2	0	4	19-2	42	1	20	43/2	82_	23	57	27/2	
. 0000	108 0	300	10 48	3	0	6	28-8	43	1	32	52-8	83	#	50	10-8	
4000	144 0	400	31.21	- 4	0	8	38-4	44	1	15	2-4	81		1	20-4	
5000	150 0.	500	38 0	.0.	(0)	10	48-0	45	1	37	12-0	85	. 3	3	36-0	
6000	210 0	600	21 30	6	:0	12	67-6	40	1	39	21-6	86	3	- 8	45:6	
7000	232 0	700	25 12	7	0	15	7-2	47	3	41	31-2	87	3	3	55:2	
5000	288 0	800	28 48	8	0	17	10-8	48	1	43	40-8	88	181	10	4:8	
9000	324 0	900	32 24	9	D	19	20-4	49	1	45	50-1	89	3	12	144	
10,000	360 0	1000	36 0	10	10	21	36-0	50	1	48	0-0	200	2	14	24-0	
-	-	-		11	9.	23	45:0	31	1	50	9-6	91	3	16	33-6	
				12	.0	25	55-2	(92	1	93	19-2	92	7	15	43-3	
				13	0	28	+8	23	1	04:	28-8	93		20	52-8	
				34	0	20	14-4	54	1	56	38-4	94	3	23	224	
				15	0	22	24/0	55	1	58	48'0	95	3	25	12-0	
				16	41	74	33-0	54	2	0	57-6	97	3	27	21-6	
				17	100	36	43-2	647	9	3	7.2	98	3		31-2	
		or parts.		18	0	38	52.5	58	2	5	10-8	99	730	77	40-8	
	(10,000th	a of circles		10	0	41	:014	59	2	7.	264	100	3	33	00.4	
Unit.	P. H.	Unit.	"	20	.0	40	12:0	60	2	9	36-0	100	198.3	1019	0.0	
				21	0	44	21.6	61	2	11	45-6					
0.1	0 12-96	0.01	1:296	20	0	40	31.2	20	20	10	55-2					
10-2	0 25-92	0-03	2.592	23	0	48	50-4	63	2	18	4-8					
0-3	0 38-88	0-03	3-586	25	0	50	0.0	65	-	10	24-0					
10-6	0 33-34	0.01	5-184	26	0	56	9-6	66	2	22	33-6					
0-5	1 4-80	0-05	6-490	27	0	58	10-2	67	2	24	48-9					
0-0	1 17-76	0-06	7-776	28	1	0	28-8	68	12	20	52-8					
0-7	1 301-72	0-07	9-072	19	1	2	38-4	65	9	29	2.4					
0-8	1 47 08	0-08	10-368	10	1	4	48-0	70	2	31	12-0					
0-9	3 50-64	0.00	11-004	81	1	6	57-6	71	2	22	21-6					
For	every aucees	sive decim	at of unit	32	1	p	7.2	78	2	35	31-2					
move to	he decimal;	point of se	conds one	33	1	31	16.8	73	2	87	40-8					
				34	1	13	26-1	74		39	50-4					
				35			36-0	75		42	0-0					
				26	1	17	45-6	77		44	2.6					
				37	1 7		55-2	77	1		19-2					
				38	1	22	4-8	72	1350		28-R		1			
				39	1	24	14-1	70	2	50	38-1		1			
				40	1	20	24-0	80	2	52	68-0		11			
				1	1				1							
					0			1 1	1				11			
			*	1 -					1							
			3	1												
								17								

TABLE XLVI.

INDICES OF NAKSHATRAS AND YOGAS.

To take, for close work, the place of Table VIII, cols. 6 to 13, of the "Indian Calendar."

	A STATE OF THE PARTY.		NAKSI	IATRA.				1	Yoga.	
Serial number	Name.	Equ	point by th ual-space estem.	the	ng point by system of larga.	B	point by t rahma- idhanta.	he somm	ALC: U.S. C.	Ending soils
Serial		1.0	10,000ths of circle.		10,000th of circle.		10,000t	hs e		Indian
	1 2 .	3	4	1105	- 6	7	8	1		11
	l Asvini*	13 20	370-376	13 20	370-376	13 10 3	5 366-010	s 1	Vishkambha	-
-	Bharanī	26 40	740-740	20 0	555-5	19 45 5	24 549-005	1 2		
35 Ta	Krittika	40 0	mi	33 20	925-925	32 56 2	7 1 915-027	0 3	Ayushmat	100
:4	Rohini	53 20	1481-181	53 20	1481-181	52 42 2	0 1474-0433	2 4	Saubhāgya	sola.
	Mrigasiras .	66 40	1851-851	66 40	1851-851	65 52 5	5 1830-0546	5	Sobhana .	lin
	Ārdrā	80 0	2222.9	73 20	2037-037	72 28 15	The second second		Atigaņda .	the equal space nakshatra (number by number) as given in cols. 3.
7	Punarvasu .	93 20	2592-592	93 20	2592-592	92 14 1	2562-0756	1 7	Sukarman .	4.5
-8	Pushya	106 40	2962-969	106 40	2962-962	105 24 40	2928-0864	8	Dhriti	nber
29	Aśléshā	120 0	3333-3	113 20	3148-148	111 59 57	3111-0918	9	Sūla	r na
10	Maghā	133 20	3703-703	126 40	3518-518	125 10 32	1 3477-1026	10	Ganda .	or by
11	Pürva Phalgunī	146 40	4074-074	140 0	3888-8	138 21 7	1 3843-1134	111	Vriddhi .	ump
12	Uttara Phalguni	160 0	444-1	160 0	4444-4	158 7 0	4392-1296	12	Dhraya	ra (n
13	Hasta	173 20	4814-814	173 20	4814-811	171 17 35	4758-1404	13	Vyäghäta .	shati
14	Chitră	186 40	5185-185	186 40	5185-185	184 28 10	5124-1512	14	Harshana .	nak
15	Svāti	200 0	5585-5	193 20	5370-376	191 3 27	5307-1566	15	Vajra	pace
16	Višākhā . ,	213 20	5925-925	213 20	5925-925	210 49 20	5856-1728	16	Siddhi or	ual-s
17	Anurādhā ;	226 40	6296-296	226 40	6296-296	223 59 55	6222-1836	17	Aśrij. Vyatipāta	500
18	Jyështhā .	240 0	6666-Ġ	233 20	6481-isi	230 35 12	6405-1890	18	Variyas /	of th
19	Mūla	253 20	7037-037	246 40	6851 851	243 45 471	6771-1998	19	Parigha	the oase of
20	Pürva Āshādhā	266 40	7407-107	260 0	7222.2	256 56 22 1	7137-2106	20	Śiva	the o
21	Uttara Ashādhā	280 0	7777-7	280 0	7777-7	276 42 15	7686-2269	21	Siddha	a in
	Abbijit+	***	***	***	***	280 56 30	7803-9352		- 34	4
22	Sravaņa	293 20	8148-145	293 20	8148-148 3		8169-9460	22	Sādhya .	ending point is the same
23	Dhanishthā or Sravishthā.	306 40	8518-518	306 40	8518515 3	07 17 40	8535-9568		Subha	s th
24	Satabhishaj or Satatārakā,	320 0	8888-8	313 20		113 52 571	CARL CHEST MANY		Sukla .	int
25	Pūrva Bhadra- padā.	333 20	9259-259	326 40	more as the	27 3 321	9084-9730	45)	Brahman .	4
26	Uttara Bhadra-	346 40	9629-629	346 40	9629-629 3	46 49 25	Name of the		Indra .	negi
27	padā, Rēvatī .	360 1	0,000	360					Vaidhriti .	1
=								1		

^{*} Aświni begins at 0° by all systems.

† Though properly speaking there is no Abhijit in the equal-space system in ordinary use, sometimes it is referred to as a secondary detail. When this is the case, it has the same limits as fixed by the Brahma-Siddhanta viz., 276° 42′15″ to 285° 56′ 30″, or, in 10,000ths of the circle, 7686-2269 to 7803-9352.

TABLE XLVII.

HINDU SINES, AND EQUATIONS OF SUN'S CENTRE.

- N.B. i.—The sines, col. 3, stand, it is believed, for all authorities except the Brahma-Sid-dhānta (for this last see Table LXXXIX below).
 - " ii.—" Equation + " or "— " means that the amount of the equation, added to or subtracted from the sun's mean long., gives his true or apparent long.
 - " iii.—This Table is assimilated to that of Prof. Jacobi (Epig. Ind., I. 459).
 - " iv. First Arya figures are exact. For fuller details see next Table.

7			Sun's E	QUATION	OF THE	CENTR	E ACC	ORDING	то ти	E			1	8	T
SUN'S MEAN	SINE OF S	0.000	First A Siddha			nt Sür Idhänt	a.	and S	iddha oman	nta		N'8 3	IEAN		r of sine
rist number	Minutes.	Diff.	Base- equation	Diff. per min.		ise- tion.	Diff. per min. of anona.	Ba		Diff. per min of anom-	P		ion -		Serial number of sin
Z Equation +	× -	۵_	-	-10	-	_	<u>a</u>	-	-	<u>a</u> _	- 10	quiss	ton -		-
1 2	3	4	5	6	7		8	9		10		11		-	1
0 / 0 /	1	2	0.7	* *	0 /	(1)	*	0 /		A.	0	,	0	1	
0 0 0 180 0	0	Albert .	0 0	0 2.2	0 0	0	2:33	0 0	0	2.28	180	0	360	0	0
1 3 45 176 15	225	225	0 8 26	25	0 8	44-18	2.31	0 8	32-50	2-27	183	45	356	15	1
2 7 30 172 30	449	224	0 16 50	25	0 17	24-41	-	0 17	2.72		187	30	352	30	2
3 11 15 168 45	671	222	0 25 9	75 2.2	0 25	58-39	2-28	0 25	28-39	2.25	191	15	348	45	3
4 15 0 165 0	890	219	0 33 22	-50 2-1	0.34	23-87	2.2	0.33	47-22	2-22	195	0	345	0	4
5 18 45 161 15	1105	215	0 41 26	2-1	0 42	38-60	2.20	0 41	56-94	2-18	198	45	341	15	5
6 22 30 157 30	1315	210	0 49 18	75 2-1	0 50	40-39	2-14	0 49	55-28	2-12	202	30	337	30	6
726 15153 45	17223	205	0 57	0-0 2-0		29-33	2.08	0 57	42.22	2-08	206	15	333	45	
2000	1520	199		75 1-9		3-25	2.02		15-50	2.01	210	0	330	0	8
8 30 0 150 0	1719	191	10 11 E EZ	1-9	1	17-72	1-93		30-56	1-93			10000	10.000	E
9 33 45 146 15	1910	183	20.00	1-50			1/8/		Big	1-85		45	326	15	
10 37 30 142 30	2093	174		1-25		12.88	1.77		27-39	1.76	217	30	322		10
11 41 15 138 45	2267	164	1.25	0.75	1:26	46-62	1-63	1 26	3-72	1.66	221	15	318	45	H
12 45 0 135 0	2431	154	1 31 1	9:75	1 32	56-84	1.5	1 32	17-28	1.50	225	0	315	0	12
13 48 45 131 15	2585	143	1 36 56	6-25	1 38	43-69	1.43	1 28	8-06	1-47	228	45	311	15	13
14 52 30 127 30	2728	100,700	1 42	18-0	1.44	4-96		1.43	33-78	1:33	232	30	307	30	14
15 56 15 123 45	2859	131	1 47 1	2-75	1 48	58-92		1 48	32-17	1	236	1.5	303	45	15
16 60 0 120 0	2078	119	-	0.50	1 53	25-36		1 53	3-22	1-20	240	0	300	0	16
17 63 45 116 15	3084	106	1 55	30-0	1:57	22-31	1-0	1 57	4-67	1-0	243	45	296	15	17
18 67 30 112 30	3177	93		8-25	93 2 0	49-90	0.9	2 0	36-50	0-14	247	30	292	-30	18
19/71 15/108 45	3256	79	2 2	6-0	79 2 3	46-02	0.7	2 3	36-44	0.80	251	15	288		19
20 75 0 105 0	Towns.	65		2-25	65 2 6	10-78	10-6	2 6	4.50	0.6	255		- No. Z		-
		51		27-0	51		0.50			0-52	1	0	285		20
21 78 45 101 15		37	1000	0.	37	4:26	0.3	7 8	0.67	0.37		45	281		21
22 82 30 97 30	O TANAGE	99		0-25	22 2 9	26-54	0.2		24 94	0.25		30	277		22
23 86 15 93 45	Section 201	7	1	9-75	07 2 10	15-44	0.0	2 10	15-06	0.07	266	15	273	40	23
24190 0 90 6	3438			5-50	2 10	31-0		2 10	31-0		270	0	270	0	24
	_	-		-	-		_	-		-		_	1	_	_

TABLE XLVIIA.

(Supplementary to the Sine and Equation Table).

Giving fuller details of the entries in Table XLVII, cols. 7, 8, 9, 10, eiz., base-equations and differences per minute of arc, for use in close calculation, according to—

(i) The Present Sarya-Siddhanta,

(ii) The Second Arya-Siddhanta and Siddhanta-Siromani.

erint num. Ler of sine.	100	Present Sürya-S	liddhā va.	2nd Arya-Si Siddhānta	
Serint num Ler of sim	Bas	e-equation.	Diff, per minute of anom. arc.	Base-equation	Diff. per minute of anom are.
1		7:	8	9	10
	0	1 11		0 , "	*
0	0 0		2-3297	0 0 0-0	2-2777
2	0 17	A CONTRACTOR OF STREET	2-3121	0 8 32·5 0 17 2·72	2-2677
3	0 25	EV GIMETING	2-2844	0 25 28-38	2-24740
4	0 34		2-2466	0 33 47-2	2-21703
5	0 42	MEASURE CONTRACTOR	- 2-1988	0 41 56-94	2-1765
6	0 50	40-39032702	2-1413	0 49 55-27	2-1215
7	0 58	29-33229918	2-0842	0 57 42-2	2-0753
8	1 6	3-25	2:0174	1 5 15-5	2-0146
9	1 13	17-71604934	1-9310	1 12 30-5	1-9336
10	1 20	12-87859542	1-8452	1 19 27-38	1-8526 1-76148
11	1 26	46-61953014	1-6454	1 26 3.72	1-6602
12	1 32	56-83576962	1-5416	1 32 17-27	1-5590
13	1 38	43-68681726	1-4279	1 38 8-05	1-4477
14	1 44	4-95633636	1-3065	1 43 33-7	1-3262
16	1 48	58-91608494 25-35847716	1-1842	1 48 32-16	1-2047
17	1 57	22-30831878	1-0531	1 53 3-2	1-0731
18	2 0	49 89921462	0 9226	2 0 36-5	0 94148
19	2 3	46-02029604	0.7828	2 3 36-i	0.7968
20	2 6	10-77879576	0-6434	2 6 4.5	0-6580
21	2 8	4-26294360	0.5044	2 8 0-6	0.5163
22	2 9	26-54196564	0-3657	2 9 24-94	0-3746
23	2 10	15-44365260	0-2173	2 10 15-05	0-0709
24	2 10	31-0	0.0001	2 10 31-0	0.0709

N. B.—In col. 9 under " (seconds) and opposite lines Ncs. 1, 3, 18, 20, the last figure, " 5" is not, like the rest, a recurring decimal.

10,000ths of circle.

2

d

TABLE XLVIII A.

ELEMENTS OF THE SUN'S LONGITUDE FOR THE HINDU SOLAR YEAR according to the First Arya-Siddhanta.

in periods of 24-hours each from the moment of true Mesha-samkianti,

the astronomical beginning of the solar year.

(Exact for all years.)

[True longitude = mean longitude + equation of centre.]

est Arya-Siddhanta.

Sun's true longitude

Sun's equation of the centre.

Sun's mean longitude.

Sun's mean anomaly (or mean sun's distance from perigee-

(''c'').

24.bour periods from true Mēsba-samkrānti

4 5 6 7 8
0 10,000ths o " 10,000ths o '

10,000ths of circle.

0

20

21

(The nun's equation of the centre is + till his mean anomaly reaches 180%.

	0-0	27-2090	81-5240	135-8143	162-9077	2017-0709	271-1686	Contract of Contract	325-2033	352-2080	406-1150	
	0.0	46-29	5-51	21-03	52-84	52.30	43.45		96.35	46-15	15.30	-
	0	899	99	525			2 5		72	Kiffe C		
	0	0	- 010	27	10.5	5.15	00.0		21	22.5	2.7	
	38-77-56	58-6068	58-1060	57-7006	574162	56-8230	56-5261	1001.00	55-8052	55-0715	54 2228	
	57-32	35-44	38-48	38-00	F14	1 2 2 2 2 3 4 4 5 5 5	5.79	10-61	32-35	57.27	7.27	
A STATE OF	9	9	0 10	04	+		01+			1 58		
	91	01	G1 D1	01.01			01.0	_				
(The man a equation of the extine to T the	1165-1146	9968-6022	9995-9801	50-7358 78-1136	105-4915	182-8694	187-6251	210-0029			324-5144	The state of the s
no to to	2-68	10-85	19-02 27-19	35-36	54-70	8.04	16-21	24-38	32-55	18.89	57.06	
equan	53	97	500	\$	4.7	46	2	7			99	
1000	357	358	359	- 01	00	7.5	9	1-	00.0	2	22	ß.
1000	2774-5577 1	2801-1355	2829-3134	2884-0691	2938-8248	2966-2027	3020-9584	3048-3363	3075 7141	3130-4698	3157-8477	
	53-04467 1	52-18078	51-31695	49-58929	47-86164	46-99781	45-27015	44-40632	43-54250	41-81484	40-95101	200000
	66	100	101	103	105	106	108	130	110	12	113	Charles of the Control of the Contro
	41 money of free Medie.	sainkränti.	- 54 00	****	9	E- 4		10	a:	23 22	41	

20	433-0685	486-8927	513-7869	540-6811	567:5402	594-3751	621-2100	048-0448	074-8367	701-6168	728-3969	755-1770	781-9034	0000	833.3	835-3541	862-0706	015.4910	942-0961	068-7544	005-3830	1022-0134	1075-2466	1101-8305	1128-4144	1154-9983	1181-5510	1208-0938	1234-6366	1961-1794	1287-6874	1940-7000	TORN ING
1	25.67	41.30	46.78	52-27	53.22	10-19	18-81	46-61	38-84	29-54	20-24	10-04	54-68	00.00	0.0	21-90	98.4	18.50	22.00	30-56	1-75	32-94	31-96	57-24	22-51	47.78	00-0	28-95	48-91	8-86	24.08	30.00	21.10
xi.	12.5							119					oc s		0	+			100	91	20	4	3 2	39	37	34	320	65	98	70	57	20 1	10
	10	11	18	130	20	01	20	23	7	55	50	27	90 0	1	30	30	3	900	1 000	34	32	38	38	30	40	4	42	43	#	45	9:	10	40
	53-7984	52-8669	52-3832	51.8990	51.3808	50-8379	50 2949	49-7519	49-1629	48-5682	47-9704	47-3727	46-7912	10,000	45-4655	45-4162	44-7548	44-0022	42-6468	41-9271	41-1788	40-4305	38-6821	383140	37-3201	36-5261	35-7009	34.8659	34-0308	33-1968	32-3259	31-4543	30.0820
	19.27	11.05	8.87	6-19	96-89	48.59	38.55	27.85	11-90	54-43	36-97	19-20	55-07	anan	72.53	5.94	40-23	19-10	7.02	33-76	56-77	19-70	18:37	19.58	36-68	53-78	6.83	18-81	30-40	42.18	45-43	26-48	2.03
0	92	54	53	1 52	09.7	67	81	1 47	97 1	77	1 43	9	99	000	1 38	38	1 36	90	320	30	87	27	84		1 30				113	111	0		0
															140																		
	379-2701	434 0258	461-4036	488-7815	518-1594	543-5372	570 9151	598-2929	625-6708	653-0486	680-4265	707-8044	735-1892	1000-761	787-8678	789-9379	817-3168	844-6936	899-4494	926-8272	954-2051	981-2829	1036-3386	1003.7165	1091-0044	1118-4722	1145-8501	1173-2279	1200-6058	1227-9830	1255-3615	1282-7394	1310 1172
	13-40	99.74	37.91	46-08	54-95	2 42	10-59	18-76	26-93	35-10	43.27	51-44	50-62	0000	19-11	15-96	24-13	8 1	18-64	56-81	4-98	13.15	55-65 50-45	97.00	45-83	24-00	2.17	10-34	18-21	89-95	34.85	43.02	21-19
₩3	39	2 50	36	iş.	32	34	333	23	33	30	88	88	122	7	27	26	52	7 00	3 21	23	60	20	22	1	199	15	12	14	13	12	=	20	-
	21	12	10	11	81	19	90	E	22	000	24	252	98	7	258	87	82	30	300	33	35	555	37.	96	38	40	41	일	43	44	45	98	44
es.	3212-6034	2067.2501	3294-7370	3322-1148	3349-4927	3376-8705	3404-2484	3431-6263	3459-0041	3486-3820	3513-7598	3541-1377	3568-5155	2010-2104	3621-3011	3623-2713	3650-6491	3678-0270	3732-7827	3760-1605	3787-5384	3814-9163	3869-6720	2007,400	3924-4277	3951-8055	3979-1834	4006-5613	4033-9391	4061-3170	4088-6948	4116-0727	4143-4505
	39-22335	97.49570	36-63187	35-76804	34.90491	34-04058	33-17655	32-31973	31-44890	30-58507	29-72124	28-85741	27.99358	27-123-0	21-79443	26-26593	25-40210	24-53827	22.81061	21-94678	21.08296	20-21913	19-35530	17.40784	16.76381	15-89999	15-03616	14-17233	13-30850	12-44467	11-58084	10-71709	9-85319
24	115								124				128		130				134.55				138		7	142	143	144	145	146	147	148	149
-	10	2	10	95		01	01	76	25	26	200	861	018	De .	true Prichabka-sastik,	16	32	200	929	36	120	88	609	1	679	43	4	99	99	47	89	69	00

Ist Arya-Siddhanta.	Sun's true longitude (**8**).	0	10,000ths of circle.	1367-2008 1393-6706 1420-1404 1446-6103 1473-0706	1499-5130 1525-8555 1552-3979 1578-8280 1605-2476	1631-6673	1666-6 1084-4807 1710-8865 1737-2833 1737-2833 1703-6801 1790-6599	1816-4385 1842-8171 1869-1930 1895-5588 1921-9236
Ist Ary	"s true lo			9-22 30-20 40-69 49-65	388 388 10-77 16-71 26-69	28-08	9.6 39.88 31.43 31.43	20-43 27-53 21-41 21-30
	Sun	œ	15	200-4-	88888	\$4	* XXXXX	22768
. 3		178	0	\$8228	84888	8.6	3 32332	88288
	Sun's equation of the centre.	is.	10,000ths of circle.	29-7057 25-7977 27-8807 26-9817 26-0641	25-1287 24-1933 23-2579 22-3101 21-3518	20:3936	19-1227 18-4803 17-4793 16-4883 15-5172 14-5191	13-5196 12-5206 11-5195 10-5065 9-4936
	nation o		•	9-86 12-18 14-50 16-82 17-91	16-68 17-68 11-38 17-30	3-01	78-37 45-32 45-32 31-03 21-68	2.67 52.93 41.65 30.37
	Sun's eqt	9	0	400000	25523	**	2 85888 2 00000	822338
TABLE XLVIII A-Contd.	San's mean longitude.	, o	10,000ths of circle.	1337-4951 1304-8729 1392-2508 1419-6286 1447-0065	1474-3844 1501-7622 1529-1401 1556-5179 1583-8958	1611-2736	1647-5439 1666-0294 1693-4072 1720-7851 1748-1629 1775-5408	1802-9186 1830-2965 1857-6744 1885-0522 1912-4301
-VIII	mean k			26-36 27-73 22-37-32 32-04-37-32	40-21 48-38 56-55 4-72 12-80	29-23	47-69 37-41 45-58 53-75 10-09	18-26 26-43 34-60 42-77 50-94
XEA	Sun',	*		00 00 11-00 10	400000	0 69	25 55 55 55	32323
LE	-	112	0	\$ 9 8 2 8	82882	8 8 8	8 88288	33828
TAB	Sun's mean anomaly (or mean sun's distance from perigee- point) (''6'').	8	10,000ths of circle.	4170-8284 4108-2063 6225-5841 6262-9620 4280-3398	4307-7177 4335-0955 4362-4734 4389-8513 4417-2291	4444-6070	4480-8772 4490-3627 4526-7406 4554-1184 4581-4963 4608-8741	4636.2520 4663.6298 4691.0077 4718.3856 4745.7634
1	mean anoma distance fron point) (''c'').	01		8-98936 8-12553 7-26170 6-39787 5-53404	4-67022 3-80639 2-94256 2-07873 1-21490	0.35107	78-62342 57-75859 56-63193 55-16810	54-30428 53-44045 52-57662 51-71279 50-84890
	Sun's		0	55 25 25 25 25 25 25 25 25 25 25 25 25 2	155 155 158 158	160	761 161 162 163 164 166	165 167 169 170
	24-hour periods from true Mesha-samkranti.	-		28828	88833	100	### frue Miduna-sankräuli. 63 64 65 66 66 66	3228

	1948 2885 1974 6504 2001-0062 2027-3619 2053 7177	2080-0711 2106-4223 2132-7734 2159-1246	2166.6			2185-4758 2211-8270 2238-1782 2264-5294 2290-8847	2317-2405 2343-5962 2360-9529 2396-3178 2422-6827	2449-0476	2500-0	2501-7951 2528-1737 2554-5522 2580-9398 2607-3360
	22888	2000	62			588888	ននននង	22	600	25522
	18-19 10-40 10-40 10-40 1-81	2848 8488	0.0			27-57 27-58 27-58 23-01 18-66	14.37 10-07 5-90 27.79 59-67	53-98	0.0	52-64 51-31 49-97 50-83
	869668	3444	3			25558	88922	0.00	٠	20220
	25555	1995	7.8			85823	22222	88	96	82288
	8-4800 7-4646 6-425 6-4204 4-3983	3-3739 2-3472 1-3205 0-2938	0-0	So" or 0".)	the centre	0-7328 1-7385 2-7862 3-8128 4-8354	6-8576 6-8796 7-9007 8-9137 9-9267	10-9397	12-8798	12.9478 13.9471 14.9464 15.9367 16.9177
	200 200 200 200 200 200 200 200 200 200	17.25 4.20 51.14 38.08	0.0	Treaches 30	Sun's equation of the centra	34-97 48-03 1-09 14-14 26-66	25-55 25-55	37-78	19.52	58.04 77.55 17.06 25.39 32.54
	00000	0000	0 0	111 a08	Sun's e	00000	00000	0.0	0 27	28888
The state of the s	1939-8079 1967-1858 1994-5636 2021-9415 2049-3194	2076-6972 2104-0751 2131-4529 2158-8308	2166-6	(Sun's equation of centre is minus,—, after his mean anomaly is 180° till it reaches 360" or 0".)		2186-2086 2213-5865 2240-9644 2268-3422 2295-7201	2323-0979 2350-4758 2377-8536 2405-2315 2432-0004	2459-9872	2512-8798	25147129 2542-1208 2569-4986 2596-8765 2624-2544
	59-11 7-28 15-45 23-62 31-79	39-96 48-13 56-30 4-47	0.0	er his me		12-64 28-98 37-15 45-32	1840 1840 1840 1840	25-25 42-21	19.53	50-68 58-85 7-02 15-20 23-37
ı	55858	3444	0	No.		24488	48884	25 SI	01	28888
	32128	1335	7.8	inne,		*******	848848	88	98	82822
	4773-1413 4800-5191 4827-8970 4855-2748 4882-6527	4910-0306 4937-4084 4964-7863 4992-1641	0-0009	n of centre is m		5046-9198 5046-9198 5074-2977 5101-6756 5120-0534	5185-8081 5211-1870 5218-5648 5265-9427	5293-3206	5346-2139	5384-0763 5375-4541 5402-8320 5430-2098 5457-5877
	49-12130 49-12130 45-25748 47-39365 46-52982	45-66599 44-80216 43-93833 43-07451	0.0	sun's equatio		42-21068 41-34685 40-48302 39-61919 38-75536	37-89153 37-02771 36-16388 35-300005 34-43622	33-57239	27-82045	31-84474 30-98091 30-11708 29-25325 28-38942
	EEEEE	5556	180	2		88888	88188	22	192	28122
C	13252	2888	(alogee)			2222	28882	25.82	samkranti.	38868
			Sun_et 7.5 (upogeo)						At true Karka-samkranti.	

Ist Arye-Siddhanta.	ngitudo).	0	10,000ths of circle.	2633-7335 2660-1303 2886-5428 2712-9625 2739-3821	2765-8017 2792-9416 2818-6840 2845-1264 2871-5711	2898-0400 2924-5107 2950-9800 2977-4805 3003-9668	3030-4731 3056-9794 3083-5030 3110-0458 3136-5889	3163-1314 3180-7016 3216-2855 3242-8694 3269-4533	3322-7061
ISI AU	Sun's true longitudo	œ	2	48 51-86 45 52-88 42 55-95 35 59-95 37 3-92	25 25 25 25 25 25 25 25 25 25 25 25 25 2	19 4610 16 5659 14 7.98 11 18.87 8 34.00	5 4031 0 2198 57 1198	284 1993 1993 1993 1993 1994	30 31-52
	00		0	8888	88288	288228	22EEE	######################################	118
	San's equation of the centre.	į.	10,000ths of circle.	17-8088 18-8798 19-8451 20-8033 21-7616	22-7198 23-6578 24-5932 25-5286 26-4618	27.3699 28.2779 29.1839 30.0839 30.9554	31-8270 32-6985 33-5528 34-3879 35-2229	36-0579 36-8656 37-6595 38-4535 39-2475	40-0021
	equation o	9	*	8 39-68 0 46-82 0 51-93 7 56-11	9 4-48 1 6-05 3 7-28 5 8-51 7 9-45	7.14 1 4.82 3 9.50 4 58.88 6 51.83	25 25 25 25 25 25 25 25 25 25 25 25 25 2	7 53-11 9 37-78 1 20-68 3 3-57 4 46-47	6 24-27 8 1-26
tā.	San'a		0	00000	00000 \$2882	8-2-2		11111	88
TABLE XXVIII A-Conta	ongitude.	20	10,000ths of circle.	2651-6322 2679-0101 2706-3879 2733-7658 2761-1436	2815-8994 2813-2772 2870-6551 2898-0329	2052-4108 2052-7886 2980-1665 3007-5444 3034-9222	3052-3001 3059-6779 3117-0558 3144-4336 3171-8115	3199-1894 3226-5672 3253-9451 3281-3229 3308-7008	336-0786
LE XX	Sun's mean longitude			25 25 25 25 25 25 25 25 25 25 25 25 25 2	12.39 20.56 28.73 36.90 45.07	55.5 1-41 17.75 17.75 18.95	24-09 43-36 54-36 6-77-6	14-92 13-12 17-62 17-62	3.96
TAB	Smr	7	0	88788	25252 25252 25252	200 200 200 200 200 200 200 200 200 200	35555 2555 2555 2555	0 8 2 8 11 8 11 8 11 8 11 8 11 8 11 8 11	120 5
		1		1	MESSAGE STREET	The state of the	100 May 12 192	0.100.000	- 1
	Sun's mean anomaly or (mean sun's distance from perigee- point) (''C'').	n	10,000ths of circle.	5484-9656 5512-3434 5539-7913 5567-0991 5584-4770	5621-8548 5649-2327 5676-6106 5703-9884 5731-3663	5758-7441 5788-1220 5813-4998 5840-8777 5868-2556	5895-6334 5923-0113 5850-3891 5977-7670 6005-1448	6032-5227 6059-9006 6087-2784 6114-6563 6142-0341	6169-4120 6196-7898
	un's mean anomaly or (measun's distance from perigee- point) (''c''),	01		27-52558 26-66177 25-79794 24-93411 24-07028	23-20645 22-34262 21-47879 20-61497 19-75114	18-88731 18-02348 17-15965 16-29582 15-43200	14-50817 13-70434 12-84051 11-97668 11-11285	10-24902 9-38520 8-52137 7-65754 6-79371	5-92988
	Sun			198 198 200 200 201	2002 2004 2005 2005	208 209 210 210	200000	213 219 220 220 221	333
	24-bour periods from true Mēsha-samkrānti.	-		201 1001 1001 1001 1001	104 105 107 107 108	108 110 1110 1113 1113	114 116 117 118	11.0 12.0 12.0 12.0 12.0 12.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13	124

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	3333-3	3349-3356 3375-9677	3429-3180	3482-6810	3509-4063	3562-8570		3016-3800	3669-9472	3096-7624	3123-01113	3750-4322	3804-1515	3831-0457	3867-9399	3884-8341	3911-7895	3938-7430	3992-6646		4019-6820	4073-7167	4100-7611	4127-8424	4154-9237	
	0.0	5.41	19-61	35-45	19-06	46.97 38.45		28-75	5-16	0-41	03/21	56-01	58-04	25-53	10-6	14-50	27.02	41-10	9.83		30-74	13-69	38-64	8.37	38-11	
0:	0	7,000				222			: 1-			0	8 98	99	93	10	45	9	3#		200	28	13.7	98	76	5
	120	858	123	195	120	188		130	12 22	133	134	135	136	137	188	139	140	Ŧ.	143		#5	146	147	148	140	4.361
	1610-11	41-4988	43-6499	45.0427	45-6952	47-6282	101	48-2251	49-4215	1886-65	1120-00	1070-12	52-1064	1069-59	43-0737	635,0574	53-9798	54-4042	55-2384		55-5988	56.3198	56-6532	26-9498	57.94B4	101.010
	39.68	38-24	17-03	17-53	42.10	31-23		10-00	45-03	57-94	281	18-68	32.99	35-67	38.36	41.04	35-70	30.78	18.80	Ų,	19-9	00.20	95.56	0.70	90.14	2100
	900	92.50		37		2 7 2			9 9			99	52	53	54				200		-	-	- 01			
	L			-				-	_	-		-		-	_				-	-	01.0		1.01			
	3374-3824	3418-2122	3472-9679	3597.7936	3555-1015	3609-8572		3664-6129	3719-3687	3746-7465	3774-1244	3801-5022	3828-8801	3883-6358	3911-0137	9098.9015	3965-7694	3993-1472	4020-0201		4075-2808	4102-5587	4157-4144	4148-7922	1010.1701	1071-2124
	39.96	12-13	44.31	29.00	1-16	17.50		33.84	50-18	58.35	0.93	14-69	31.03	39-20	47.37	RECKA	3.71	11.88	20-02 58-55		36-39	44.56	0.00	0-02	10,41	17.54
	86	+ 65.0	-0	20	90	823		12	200	52	101	150	29	\$	47	100	46	46	4.5		4	7	3 9	30	00	38
	191	233	122	1961	100	252		131	132	134	135	136	137	139	140	-	142	143	145		146	147	149	150	-	101
	6207-7168	6224-1677	6333-6791	6961-0570	6388-4348	6443-1906	and the second	6497-9463	6552-7020	8620-0899	0007-4577	6634-8356	6662-2134	6716-9691	6744-8470	0107.1700	6790-1027	6826-4806	6853-8584		6908-6141	0935-9920	6990-7477	7018-1256	Action where	7045-5034
	28-66604	4-20223	1-61074 0-74691	20.0020.07	59-01926	57-29160 57-29160	out the state of	55-58394	54-70011	52.97246	52.10863	51.24480	50-38097	48-65331	47-78949	As Garan	46-06183	45-19800	44-33417		42-60652	41-74269	40-87886	39-15120		38-28137
	0000	+ 60 00 00 00 00 00 00 00 00 00 00 00 00	85.5			8 2 8			284			888	633	941	242	910	25.5	245	240		948	0F6	953	322	-	203
	At true Simha-samkranti.	128	129	161	132	133		136	137	139	140	140	97	144	145	200	147	148	150		101	100	162	166	***	997
	11 11																									×

fst Ārya-Siddhānta.	ongitude	6	10,000ths of circle.	1166-6	4182-0049 4206-1257 4236-2708 4203-4160 4200-5631	4317-7582 4344-9672 4372-4763 4395-3859 4426-6634	4453.9408 4481.2183 4508.5097 4535.8557 4585.2016	4590-5475 4617-9180 4645-3287 4672-7385 4700-1483	4747-5988 4755-0770 4782-5553 4810-0335 4837-5858
2	Sun's true longitude ("8").	90		0.0 0	28 8 8 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 ± 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11 36-80 10 67-98 10 19-16 9 40-34 9 8-63
			.0	150	85885	28538	32523	35588	25255
	of the centre.	t+	10,000ths of circle.	57-3757	57-5430 57-8001 58-9328 58-2655 58-4983	58-6790 58-8478 59-0167 59-1849 59-2853	59-3857 59-4861 59-5725 59-6044 50-6364	59-6682 59-6748 59-6428 59-6109 59-5789	59-5063 59-4050 59-3055 39-2052 39-0507
	Sun's equation of the centre-	9	0	2 3 55-80	4 + 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	44.80 44.80 7 7 28.56 8 3.37 3.37	2 2 1638 2 2 1638 2 2 1638 3 2 1638 3 2 1473 4 173	8 8 53 01 8 8 49 71 8 8 45 71 8 4 5 5 71	8 32 02 8 19 01 7 7 52 99 7 7 52 99
ontd.	- 55				P. San Britain			- NO ESTABLE	110000000000000000000000000000000000000
TABLE XLVIII A-Contd	Sun's mean longitude.	10	10,000ths of circle.	1224-0417	4239-5479 4266-9258 4294-3087 4321-6815 4349-0594	4376-4372 4403-8151 4431-1929 4458-5708 4485-9487	4513-3265 4540-7044 4568-0822 4585-4601 4622-8379	4650-2158 4677-5937 4704-6715 4732-8494 4732-7272	4787-1051 4814-8608 4841-8608 4869-2387 4896-6165
BLE XI	n's mean	4	* 10	25-80	25-41 33-58 41-75 49-92 58-09	6-26 14-43 30-78 38-65	25-12 26-13 11-43 19-80 19-80	27-97 36-14 44-31 52-48 0-65	8 12 12 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
TA	80		0	169 3	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	155 156 156 156 156 156 156 156 156 156	25 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2885E 28822	172 20 174 18 174 18 176 176
	n anomaly (or mean tense from perigee. point)	n	10,000ths of circle.	1057-3751	7072-8813 7100-2691 7127-6370 7155-0148 7182-3927	7200-7706 7237-1484 7264-5263 7291-9041 7319-2820	7346-6598 7374-0377 7401-4156 7428-7994 7456-1713	7483-5491 7510-9270 7538-3048 7565-6827 7593-0606	7620-4384 7647-8163 7675-1941 7702-5720 7729-9498
	s dis	04	0	3-93008	87-42354 86-55072 85-69589 84-83206 33-96823	33-10440 32-24057 31-37675 30-51292 29-64909	28-78526 27-92143 27-05700 26-19377 25-32995	24-46612 23-60229 22-73846 21-87463 21-01080	20-14098 19-28315 18-41932 17-55549 16-69166
				193	255	260 260 261 262 263	285 285 287 288	969 072 172 272 872	4750 6750 8750 8750 8750
	24-hour periods from true Mesha-samkranti.	1		dt true Kanya-samkränti.	158 159 160 161	163 164 164 165 106	165 169 170 171	173 174 174 176	177 178 179 180

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6	4865-1195	1920-2028	4047-8154	2000-0	2000,0000	5030-6586	7058-3331	5113-6820	E 1 1 4000	5160,1180	5190-8571	5994-5954	2010-2020	5080-1754	5335-7768	5363-6245	0002-1000	5447,9001	5475-1276	5503-0484	onon money	5558-8987	5814.8400	5642-8955	5670-8204	5698-8507	3726-8811	5754-9115	5782-9693	2811-0408
5400	38-58	38-68	55-21	0.0	29.54	13-36	59-97	33-19	00.00	17.79	12-68	191	01.0	10-34	16.68	25.73	1	58.99	10.01	35-08	90.00	13.57	4.55	30-19	58-35	31:05	3.79	36-52	19:81	22:02
œ	00 0	0 8- 1	- 10	0			101	010	*	K	is	NO 10		0.1	10	10 %		3,10	-	==		-	- ×	00	œ	9	91	10	=:	=
u ezan	175	122	170	180	380	181	28.	EE	182	186	187	25		96	195	193	100	1981	197	198	-	000	909	203	204	902	306	202	208	2000
1	58-8819	08-0443	58-0798	57-8727	57-8471	57-0029	57-3063	56-7131	56.2095	56-0390	55-6716	54.9140		54.0455	53-6411	50.0077	20 0010	51-7903	51-1796	50-0386	To a series	48.0421	48.3468	47.7488	47-1319	46-4794	45-8268	45-1743	44,4944	43-7017
	11-09	27.03	27-14	0.30	36.98	25-33	46.89	30-05	48.47	1.75	15-04	28.32	00.11	46.88	68-19	51.00	in dia	49.95	32-88	19.14		43.19	95-79	8-25	48-29	23.72	91-69	34-59	0-47	20.47
	1-0	0	910	10	4	-	20.0	9.01	=	-	0	6 8		3 15	120	i ii	0.5	100	20	6 8 7	1	7 19	7	43	Ŧ	9	38	37	36	24
	010	000	101	101	701	21	010	101	0	01	21		- 14	-	#	44	9	-	4			72	-	-	+	12	-	н,	-07	4
10	4923-9944	4978-7501	7033-3058	5057-8727	5060-8837	0088-2010	5115-5394	5170-3951	5197-7799	5225-1508	5252-5287	5307-9844	6000 0000	5362-0401	5389-4178	5416-7958	5471-5615	5498-9294	5526-3072	5553-6851	F-000 4400	5635-8187	5663-1965	5690-5744	6717-9522	5745-3301	970T-STT6	5800-0858	5827-1637	0000.0410
	10-07	10-9	18	0-30	30-52	38-00	10.86	3.20	11-37	19-54	27.71	20-22	20.00	0.30	8-57	24-91	33.08	41.25	49-45	57-59	19.00	22-10	30-27	38-44	46-61	54-78	2.95	11-12	02.46	01.10
+	22	20	21	10	=	10	2 0	00	1:0	10	10 1	# 25		1 01	-	230	00	52	29	13 13	2	233	229	12	20	40	49	200	7.5	300
	171	179	181	182	182	183	183	186	187	188	681	161	100	193	161	195	196	197	108	300	901	202	203	304	202	206	202	308	910	-
0	7757-3277	7812-0834	7866-8391	7891-2060	7894-2170	7921-5948	7976-3506	8003-7284	8031-1063	8058-4841	8085-8620	8140-6177	8167-9956	8195-3734	8222-7513	8277-5070	8304-8848	8339-2627	8350-6408	8414-3963	9441.7741	8469-1520	8496-5298	8523-9077	8551-2856	8578-6634	8606-0413	8633-4191	8688.1748	0400-1140
1	15-82783	14-10018	12-37252	5-00496	11-50869	9.78109	8-91721	8.02338	7-18955	6-32572	5-46189	3-73423	9.87041	2-00658	1-14275	53-41509	58-55127	57-68744	56-82361	55-09595	71.09010	53-36829	52-50447	51-64064	00-77681	49-91298	49-04915	48-18532	46-45767	
	672 080	282	283	284	284	285	987	588	289	200	0000	293	294	290	905	100				300	303	304				308	300	310	310	2000
	8.8	185	186	At true Tuld andbrilditi	187	188	190	191	198	193	102	1967	197	198	1109	201	906	503	106	206	202	208	200	210	115	212	00.00	* 10	216	

24-hour periods Mesha-sami

6431-4370 6431-4370 6459-7503 6488-0635 0516-3768

6290-0053 6290-0053 6318-2738 6340-5597 6374-8456

6120-6066 6148-8195 6177-0323 6205-2572 6205-3572

et Arya Siddhanta.	Sun's true Longitude (".*"), ('.6").	6	10,000ths of circle.	5.222.3	5839-1304 5867-2100 5895-3253 5923-4515 5951-5777	5979-7039 6007-8728 6030-0446 6064-2164 6062-3937	6120-6066 6148-8195 6177-0323 6205-2572 6233-5066	6290-0053 6290-0053 6318-2738 6340-5597 6374-8456	6403-1315 6431-4370 6459-7503 6488-0635 6516-3768
1st År	rue Longituo (''e'').		4	0.0	31-29 10-53 54-16 39-32 24-47	9462 0.88 51.88 42.45 34.85	12 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22222 22222 22222 22222 22222
	Sun's t	oc.	0	0 018	910 912 913 914 914 914 914 914 914 914 914 914 914	215 217 15 218 218 218 218 219 219 219 219 219 219 219 219 219 219	82332	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2330
	Sun's equation of the centre.	4	10,000ths of circle.	13.23.11	43-0890 42-3863 41-6498 40-9014 40-1533	39-4048 38-6137 37-8197 37-0258 30-2264	35-3814 34-5563 33-7213 32-8743 32-0028	31-1313 30-2588 29-3691 28-4611 27-5531	26 0451 25-7174 24-7820 23-8465 22-9111
	uation o		2	23-14	25.55 27.55 25.85	6.86 24.34 41.44 58.54 14.94	26-72 38-30 50-28 0-51 7-56	14-61 21-66 26-24 28-36 30-88	33-20 32-97 31-74 30-51 29-28
	an, s ed	9	0	1 33	22888	88888	24210	1-06-100-1	00000
TABLE XLVIII A-Contd.	43	10	10,000ths of eirele.	5876-5674	5882-2194 5809-5972 5936-9751 5964-8529 5991-7308	6019-1087 6046-4865 6073-8644 6101-2422 6128-6201	6155-9979 6183:3758 6210-7537 6238-1315 6285-5094	6292-SS72 6320-2651 6347-6429 6375-0208 6402:3987	6429.7765 6457.1544 6484.6322 6511.9101 6539.2879
XLVIII	Sun's mean Longitude		*	23.14	35-63 43-80 51-97 0-14 8-31	16-48 24-65 32-82 40-99 49-16	57.33 5.50 13.67 21.84 30.01	38-18 46-36 54-52 2-70 10-87	19.04 27.21 35.38 43.55 51.72
BLE	Sum's	+	0	211 33	211 212 213 214 215 215 215 215 215 215 215 215 215 215	200 88 8 8 8 5 ±	25 25 25 25 25 25 25 25 25 25 25 25 25 2	2000 2000 2000 2000 2000 2000 2000 200	22822
TA	ly (or mean m perigee-	6	10,000ths of circle.	S709-9007.	8715-5527 8742-9306 8770-3084 8797-6863 8825-0641		8989-3313 2 9016-7091 2 9044-0870 2 9071-4648 3 9098-8427 2	9126-2206 9153-5984 9180-9763 9208-3541 9235-7320	9263 1098 9290-4877 9317-8656 9345-2434 9372-6213
	Sun's mean anomaly (or mean sun's distance from perigee- point) (**82*).	01		1 33-38551	44-73001 5 43-86518 5 43-86518 7 42-13853			- recommendation	3 28-31727 4 27-45344 5 26-58961 6 25-72578 7 24-86190
			-	J. 373	20 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				28 28 28 28 28 28 28 28 28 28 28 28 28 2
	da from true deranti.			ischika-sank	719 718 718 718 718 718 718 718 718 718 718	31 91 91 91 91 91 81 91 91 91	53555	0.01010101	2500 2500 2500 2500 2500 2500 2500 2500

At true Vris

-0	6573-0470 6573-0470 6601-3831 6629-7216 6658-0805	6665 d 6865-4394 6714-7983 6771-5899 6771-5899 6771-5899	6828-2942 6826-6782 6885-6090 6911-4599 6941-8507	6970-2479 6998-6478 7027-0478 7055-4478 7083-8518	7112-2563	2.9911	7169-0654 7197 ₄ 4699 7225-8744 7254-2789 7282-6822
	34.53 1.92 27.92 27.92 27.93	\$2555 \$2555 \$3555	24448 24448 34448	14.83 th	19-42	9-6	32.10 32.10 53.32 14.56 35.61
90	###	50.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.0050.00<td>48282</td><td>258 575</td><td>01.00</td><td>0</td><td>60760</td>	48282	258 575	01.00	0	60760
	22222	8 9255	88288	82888	252	892	262 260 261 262 262
1	21-9549 20-9867 20-0384 19-0777 18-0867	77.79.77 17.1157 16.1346 16.1480 14.1488 13.1485	12-1502 11-1440 10-1311 9-1181 8-1051	7-08-58 6-0637 5-04-16 4-01-05 2-9933	1-9666	0.0 ches 780°.	Sm's equation of the centre. 0 0 11:24 0 2 24:29 0 4 37:35 0 6 50:41 0 9 3:30 4:1921
	25-35 16-98 12-48 5-33	28.10 21.05	200 200 200 200 200 200 200 200 200 200	18-32 58-33 40-92 27-93	14.88	0-0	11.24 22.29 37.35 30.41
10	23238	8 88888	22222	222×0	+ 01	0 260	\$ 00+00
	00000	0 00000	00000	00000	00	0 0000	S. 00000
20	6566-6658 6594-0437 6621-4215 6648-7904 6676-1772	6684-4963 6703-5551 6730-9329 6758-3109 6758-6887 6813-0965	6840-4144 (867-8222 6895-2001 (982-5770 (949-9558	7004-7116 7002-0894 7009-4472 7089-8451	7114-2220 7141-6008	7166-6 fter his mean av	7168-0787 7196-3565 7223-7344 7251-1122 7278-4901
	59-89 16-83 22-40 32-57	36 34 44894 5708 1342 1343	21-39 29-76 37-83 46-10 54-27	26-95 35-12	43-29	0.0 (plus)	29-63 7-80 15-97 32-32 32-32
*	888828	88 22773	22222	250 at-	20	0 40	44001-
	288888 2088 2088 2088 2088 2088 2088 20	8 25525	247 247 240 240 250	1252 252	256	258 centra	26 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3	9399-9991 9427-3770 9454-7548 9482-1327 9509-5109	9517-7937 9534-2963 9504-2963 9591-6441 8619-6902 8646-3998	9673-7777 9701-1656 9728-5334 9705-9113 9753-2801	9810-6670 9838-0448 9865-4227 8892-8006 9920-1784	9947-5563	10000-0 258 0 0-0 7166-6 0 0 0-0 0-0 Sun's equation of centre is + (plus) after his mean anom= 360 till it reaches 180°	2-3120 29-4808 57-0677 84-4456 111-8238
	23-99813 21-13430 22-27047 21-40664 20-54281	38-42730 19-67830 18-81516 17-95150 18-22367	15-35984 14-49601 13-53219 12-76836 11-90453	11-04070 10-17687 9-31304 8-44922 7-58539	6-72156	0.0	4-98390 4-13007 3-20255 2-40242 1-53859
	320 330	3 2222	320 330 348	355 355 356 357	358	360	098 0 = 01 E2 4
-	222 222	247 248 248 240 250 250 251	28.88.88	58888	262	Sun al 258° (periges)	265 266 266 266 268
u		At true Dhomah-sain- kränti 247 248 248 250 250				Sun al 26	

TABLE XLVIII A-Contd.

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fst Arya-Sidelianta	Sun's true Longitude.	8	10,000ths of circle.	7311-0822 7330-4821 7307-8821 7306-2777 7424-6684	7453-0594 7481-8502	7590-0	7500-8319 7538-2000 7500-5862 7504-9633 7623-3247	7651-6836 7680-0425 7708-4000 7736-7361	7793-4082 7821-7355 7850-0518 7878-3850 7906-6783
TST Å	"s true Lon ("8").		u	26-25 16-88 37-52 57-58 17-04	36-50	0-0	1245 1245 125 125 125 125 125 125 125 125 125 12	28.28 28.29 28.29 28.38 38.38	25 6 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	S	x	5	25257	22	0	ឧដ្ឋខ្លួន	22822	2000年2000年2000年2000年2000年200日
			9	263 265 265 266 267	988	19	22222	EEEE EE	88888
	Sun's equation of the centre.	te.	10,000ths of direls.	5-2142 6-2363 7-2584 8-2762 9-2802	10-3022	11-9727	12:3189 13:3182 14:3175 15:3168 16:3003	17-2814 18-2624 19-2421 20-2003 21-1585	22-1167 23-0091 24-0045 24-0399 25-8754
	quation +		b.	15-76 28-23 40-49 17-88	15.16	99-19	36.54 45.04 55.55 12.52	25-81 25-81 33-77 43-14 43-14	25-89 25-89 52-89 53-89 53-89 53-89
	n, s e		8.1	25578	강장	100	22222	2844	######################################
4	- S		0	00000	0.0	0	00000	00000	00000
	Sun's mean Longitude.	10	10,000ths of circle.	7305-8679 7338-2458 7360-0237 7388-0015	7442-7579	7488-0273	7497-5120 7524-8908 7552-2687 7579-6465 7607-0244	7634-4022 7661-7801 7689-1579 7716-6358 7743-9137	7771-2915 7728-0694 7820-0472 7863-4251 7880-8029
	s mean L			48-66 5-60 5-60 13-17	20.51	8.34	24.68 24.62 10.38 10.38	18-53 26-70 34-87 43-04 51-21	25.55 1.55 1.55 23.89 32.06
	Sum'	-	-	98880	25 15	15	288822	85858	33435
			0	222222	268	695	272 272 272 273	25255	282 282 283 283 283 283 283
	Sun's mean anomaly (or mean sun's distance from perigee- point) (''.c'').	3	10,000ths of circle.	139-2013 166-5791 193-9570 221-3348 248-7127	276-0906	327-3607	339.8463 358.2241 385.6020 412.9798 440.3577	467.7356 495.1134 522.4913 549.8091 577.2470	004-6249 632-0027 659-3806 686-7584 714-1363
	s mean anom a distance fro point) (''C'').	91	79.	0-67476 59-81093 58-94710 58-08327 57-21945	55-49179	34-73893	54-62796 53-76413 52-90030 52-03048 51-17265	50-30882 49-44490 48-58116 47-71733 46-85351	45-98968 45-12585 44-26202 43-39819 42-53436
	Sun's sun's		0	10 10 10 10 00	10.9	11	=22222	20 B B 1 1 E	តនានាគន
	Menha-sameranti	1		200 200 111 201 201 201 201 201 201 201	\$1.00 \$1.00 \$1.00	At true Makara-samériati	21212121212121212121212121212121212121	283 283 283 283 283 283	288 288 288 288 289

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0	7934-9792 7963-2651 7991-6510 8019-8389 8048-0992	8076.3486 8104.5980 8132.8473 8161-0660 8189-2789	\$217-8918 \$245-7032 \$273-8750 8302-0468 8330-2186	8333.3	8358-3798 8386-1000 8414-6322 8442-7584 8470-8651	8498-9456 8527-0262 8555-1067 8583-1561 8611-1864	8639-2168 8067-2471 8005-2328 8723-2084 8751-1840	8779-1589 8807-0797 8855-0008 8862-9214 8860-8299
8	39-16 39-16 1 45-01 2 50-86 3 53-65	56-57 57-62 54-16 50-54	819489 219489 219889	0.0	6.03 2.03 2.04 4.04 5.04 5.04 5.04 5.04	45.55 17.53 37.03 9.76	\$45.50 \$45.50 \$4.5	58-99 17-53 86-07 11-56
	288 288 288 288 288 288 288 288 288 288	92989 14444	28.25.25 28.25.25 28.25.25	0 01	302 200 302 202 303 55	28 58 60		010000
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ten.	26.7984 27.7044 28.6145 29.5225 30.4070	31.2785 32.1500 33.0215 33.823 34.024	35-5324 36-3059 37-1599 37-9538 38-7478	38.8355	30-5312 40-2795 41-7763 42-5011	43-2077 43-9104 44-6131 45-2845 45-9371	46-5896 47-2421 47-8498 48-4476 49-0453	49-6424 50-1853 50-7283 51-2713 51-8020
6	25.07 26.45 46.45	33-00 26-04 19-59 8-56 8-56	45.00 33.02 15.92 41.71	60-22	\$2555 \$455 \$655 \$655 \$655 \$655 \$655 \$655 \$	15 8 8 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	38.50 25.51 38.85 50.51	24.00 24.00 24.00 24.00 25.40
	56-86		22828	200	원리회명의	84848	33323	5 4 4 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1
-			+ N + C ×	1 8	50-0-			eemen .
10	7908:1808 7935-5587 7902:0365 7900-3144 8017-6922	8045-0710 8072-4479 8089-8258 8127-2037 8154-5815	8181-9594 8209-8372 8236-7151 8264-0929 8291-4708	8294-1978	8318-8487 8346-2265 8373-6044 8400-9822 8428-3601	8455-7379 8483-1158 8510-4937 8537-8715 8565-2494	8500-051 8620-0051 8647-3829 8674-7608 8702-1387	8729-5165 8756-8944 8784-2722 8811-6501 8839-0279
4	45.45 56.55 47.44 12.91	2822488 88488	10-11 18-28 26-45 34-62	16.9	49.79 29.53 29.13 17.39 15.47	\$1.83 \$1.83	4-49 12-66 29-93 37-17	46.34 17.68 18.02 18.02
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23	741-5141 708-8020 786-2009 823-0477 831-0276	8784034 9057813 933.1391 900.5370 987.9149	1015-2927 1042-6706 1070-0484 1097-4268 1124-8041	1127-8312	1152-1820 1179-5599 1206-9377 1234-3156 1261-6934	1286-0713 1316-4491 1343-8270 1371-2049 1398-5827	1425-9006 1453-3384 1480-7163 1508-0941 1535-4720	1562-8490 1560-2277 1617-6056 1644-9834 1672-3613
01	41-67053 40-80671 39-67905 38-21522	37-35139 36-48756 35-62374 34-75991 33-89008	33-03225 32-16842 31-30459 30-44077 29-57694	36-11616	28-71311 27-84928 26-98345 26-12162 26-26779	24-39397 23-53014 22-66631 21-80248 20-93865	20-07482 19-21100 18-34717 17-48334 16-61951	15-75568 14-89185 14-02802 13-16420 12-30037
	20222	22822	2883G	40	45523	26858	25 25 25 25 25 25 25 25 25 25 25 25 25 2	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	200 00 00 00 00 00 00 00 00 00 00 00 00	296 298 298 298 300	3003 3003 3003 3004 3004 3004 3004 3004	le true Kumbha-samkränti	306 307 308 308 310	38 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	316 318 318 320	200 00 00 00 00 00 00 00 00 00 00 00 00

Ist Arya-Siddhänta.	gitude	0	10,000ths of circle.	8918-6915 8946-5530 8974-4145 9002-2529 9030-0544	9057-8586 9085-6588 9113-4228 9141-1611	9767-6	9168-8994 9196-6378 9224-3254 9251-9999 9279-6743	9334-9600 9334-9600 9362-5706 9390-1812 9417-7800	9145-3287 9472-8734 9506-4200 9527-9408 9555-4190
IST Ary	San's true Longitude (''8'').	×	2	25 4 4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6	**************************************	0.0 0	+ + + + + + + + + + + + + + + + + + +	25.40 20.82 24.74	25 54 50 0 0 55 54 50 0 0 55 54 50 0 0 55 54 50 55 55 55 55 55 55 55 55 55 55 55 55
		-98	0	21811	328 328 328 329	330	0 T S S S S S S S S S S S S S S S S S S	335 335 335 330	83333
	Sun's equation of the centre.	1-	10,000ths of circle.	52 2857 52 7693 53 2530 53 7128 54-1371	45-5615 54-9858 55-3720 55-7324	56-0638	56-0929 56-4534 56-7632 57-0598 57-3564	57-6530 57-8864 58-1101 58-3518 58-3518	58-7416 58-9104 59-0792 59-2221 59-3225
	+ +		*	56-22 58-01 1-59 1-18 56-17	51-17 46-17 36-21 22-93	5.88	9-61 36-36 14-65 53-33	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	52-91 38-67 36-79 8-20 8-20
	the edi	9	0	22222	0 25 8 20	7	01 02 02	4101000	@ t+ t+ t+ 00.
old.	Sem				0	99	01 01 01 01 01	0101010101	01 01 01 01 01
TABLE XLVIII A-Concid.	Sun's mean Longitude.	19	10,000ths of circle.	8806-4058 8803-7837 8921-1615 8948-5394 8975-9172	9003-2951 9030-6729 9058-0508	9110-6028	9112-8065 9140-1844 9167-5622 9194-9401 9222-3179	9249-6958 9277-0737 9304-4515 9331-8294 9359-2072	9386-5851 9413-9629 9441-3408 9406-6965
E XL	mean I		2	26-19 32-36 42-53 50-70 58-87	7-04 15-21 23-38 31-55	54-13	39-73 56-07 4-24 12-41	20-58 28-75 36-92 45-99 38-86	1-43 9-60 17-77 25-94 34-11
ABL	Sim.*	4	-	220×1	1-010+	89	2000	55555	52532
T.			6:	88888	324 325 325 327	3227	330033	333 333 335 335 335	12 22 23 24 14 22 23 24
	anomaly (or mean unce from perigee- point) (".c"),	85	10,000ths of circle.	1689-7391 1727-1170 1754-4949 1781-8727 1809-2506	1836-6284 1804-0063 1891-3841 1918-7620	1243-9361	1973-5177 2000-8956 2028-2734 2055-6513	2083-0281 2110-4070 2137-7849 2165-1627 2192-5400	2219-9184 2247-2863 2274-6741 2302-0520 2329-4299
	Sun's mean anomaly (or mear run's distance from perigee- point) (''C'').	Ot		11-43654 10-57271 9-70888 8-84505 7-98123	7-11740 6-25357 5-38974 4-52591	58-90196	3.04208 2.7982d 1-93443 1-07060 0-20677	29-34294 58-47911 67-61528 56-75146 65-88763	55.02380 54.15897 53.29614 52.43231 51.56849
	Sun's Fun		0	22223	885	69	193119	21212	28222
	24-hour periods from true Mēsha-samkrūnti.	-		326 327 328 329 330	331 332 333 334 324	At true Mina-cambrauti	835 834 835 838 838	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5

010 02 110	59-5233 345 58 94-86 6614	346 57 40-75	347 56 53-06	348 56	349 55 17-68	59-6629 350 54 23-61 9747-4044	351 53 27-65	352 52 31-68	303 01 35-71	97.1 GO 91.19	955 40 00.0r	976 OF 10 OF 100	000 10 000	58-0881 958 46 1.59 MARTHEON	50.7 na con	58-8193 359 44 47-82 0999-96116
10.10 8		8 49.13	8 46-27	8 50-41	8 54-55		8 48-17	8 44-03	8 33.83					2 7 94.86		2 7 2.98 58
9798-4744	9550-8522	9578-2301	9605-6080	9632-9858	9660-3637	9687-7415	9715-1194	0700.0021	1010.0010	9797-2530	9824-6308	9852-0087	9870.9865	9906-7614		9934-1422
20	343 49 50-45	48	48	17	99	348 45 31.30	\$ 2	2.5		40	4110	40	339	356 38 36-66		357 37 44-83
2356-8077	2384-1856	2411-5634	2438-9413	2400-3191	2493-6970	2621-0749	9675.9906	2603-9084		2630-5863	2657-9641	2685-3420	2712-7100	2740-0977		2767-4756
50-70166	49-84083	48-97700	48-11317	41.24834	46-38551	40-02169	43-79103	42-93020		42-06637	41-20254	40-33872	39-47489	38-61106		37-74723
1000	28			- 10	88					76		-				6.5
350	351	200	503	\$09	999	900	328	359		360	361	362	263	700		366

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TABLE XLVIII-B.

ELEMENTS OF THE SUN'S LONGITUDE FOR THE HINDU SOLAR YEAR according to the Present Surya-Siddhanta

in periods of 24-hours each from the moment of true Mesha-sunkrarti,

the astronomical beginning of the solar year.

(Exact for K. Y. 4500, A D 1399—1400. See Text, para. 254, ii.)

[True longitude=mean longitude±equation of centre.]

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6	10,000ths of circle.		0.0	27-1909	24-3400	108-6401	135-7488	162-8347	189-9205	217-0063	271-0624	998-0843	325-1063	352-0651	879-0233	405-9813
			0.0	43-95	25-22	39-75	13.05	43-37	13-69	44.02	29-69	51-73	13-77	27-64	41-41	55-17
œ			0 0													
	0		_	0		19,00	-	19	9	1-0	0.00	10	11	12	13	14
4	10,000ths of circle.		59-4045	59-2176	58-9895	58-5339	58-2641	57-9721	57-6800	57.3880	56-6884	56:3325	55-9760	02-02-0	55-1378	54-7180
		(30%)	1 28-83	19-19	10-91	06-90	11-03	3.18	15-33	0.040	6.82	60-0	4-57	0.97	98.9	1-46
9		nches 1	80	12	t- 1	0.00	20	129	gy M	00.0	0 01	-	0			
100		aly re	91	01				-	146		1.21		-			-
10	10,000ths of circle.	на теан апот	5540-5955	9967-9733	9995-3519	50-1069	77-4847	104-8626	132-2404	159-6183	214-3740	241-7518	269-1297	296-5075	323-8854	201-2022
	1	lus, till !	11-11	10.34	57-51	13.85	22-02	90-19	38-36	56.03	2.87	11-04	16-61	27-38	20-00	21.01
*		4, 4	51													
	0	nfre is	347	358	320	-	O4	65	4	9 00	-1	00	G	01	= :	24
69	10,000ths of circle.	quation of the ce	8790-1678	2821-4421	9848-8199	2903-5756	2930-9535	2958-3313	2985-7092	3013-0870	3067-8427	3095-2206	3122-5984	3149-9763	3177-3541	3201-1320
63		(T'he sun's c	34-17870	34-31486	3345102	31-72333	30-85949	29-89565	29-13181	28.20787	26-54029	25-67645	24-81261	23-94877	23-05493	NO. 22.22
	0	À	100													
1			At true Mesha-sanikranti		NI CT	*	20	9	E= 0	00	10	п	01	2	41	1 01
	8 2 9	2 3 4 5 8 7 8 10,000ths of circle.	2 3 4 5 8 7 8 8 10,000ths o , w 10,000ths of the centre is +, plus, till his mean anomaly reaches 180%	2 3 4 5 69.000ths of circle. o ' " 10,000ths o ' " 10,000ths o ' " 10,000ths of circle. (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.)	2 3 3 4-17570 2821-4421 358 50 49:34 9967:9733 2 7 54-61 59-2975 0 58 43:95	2 3 3 4.17570 23214421 358 50 49.34 9967-9733 2 7 25-04 58-955 1 57 22-55	2 3 4 5 10,000ths of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (100 34:71870 22821-4421 358 50 49:34 9967-9733 2 7 54:01 559:2176 0 58 43:05 103 32:45812 225512 2 8 18:83 59:4045 0 0 0 0:0 104 31:72333 2 29:03:5756 1 48 5:08 22-709 2 6 55:40 58:5329 3 54 39:75 104 31:72333	2 3 4 10,000ths of eirele. (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) 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(The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (101 34-31486 2821-4421 358 50 49.34 9967-9733 2 7 54-61 56-2176 0 58 43-05 102 33-45102 2848-8199 359 49 57-51 9996-3512 2 7 25-04 58-9895 1 57 22-55 104 31-72333 2903-5756 1 48 13-85 50-1069 2 6 55-47 58-7613 2 56 1-15 5903-9556 2903-5756 2 47 22-02 77-4847 2 5 51-03 58-2641 4 53 13-05 106 29-99565 2958-3313 3 46 30-19 104-8026 2 5 13-18 57-9721 5 51 43-37	2 3 4 10,000ths of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) (The sun's equation of the centre is +, plus, till his mean anomaly reaches 180°.) 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	13-55 13-55 19-67 28-73 28-80	25-57-19 25-57-19 8-28-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-	58-98 49-69 36-26 3-47	25.39 25.39 24.8 39.58 15.78	46-38 47-57 47-57 42-23	6-91 31-59 53-48 12-25 31-01	19-78 0-47 20-51 34-44 48-58
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1	13 54 13 54	54.45 34.89 20.34 2.87	45.45 6.33 17.21 17.21	52-54 22-78 51-71 20-64 48-68	11-10 33-53 55-95 17-76 34-28	20-79 20-79 20-20-20 20-20-20	7.20 1.33 1.50 18.83
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	3232-1068 3259-4877 3286-8655 3314-2434 3341-6212	3368-9091 3396-3769 3423-7648 3451-1326 3478-5105	3505-8884 3533-2662 3560-6441 3588-0210 3615-3998	3642-7776 3670-1555 3697-5333 3724-9112 3752-2890	3779-6669 3807-0447 3834-4226 3861-8004 3889-1783	3916-5561 3943-9340 3971-3118 3998-8897 4026-0675	4053-4454 4080-8232 4108-2011 4135-5789 4162-9568
	21-35725 20-49340 19-52956 18-76572 17-96188	17-03804 16-17420 15-31036 14-44652 13-58268	12-71884 11-85500 10-99116 10-12732 9-26347	8.39963 7.53579 6.67195 5.80811 4.94427	4-08043 3-21659 2-35276 1-48891 0-62507	59-76123 58-89739 58-03355 57-16970 56-30586	65-44202 54-57818 53-71434 52-85050 51-98066
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present 80	Sun's true Longitude (''8").	8	W 1 0	49 11 57-80 50 9 6-52 51 6 15-23 52 3 24-32 53 0 29-48	53 57 34-65 54 54 39-81 55 51 43-13 56 48 44-75 57 45 46-37	58 42 4799 50 36 4772 60 36 4573 61 33 4586 62 30 11-93	63 27 38-36 64 24 33-47 65 21 28-58 66 18 23-70 67 15 18-09	68 12 1148 69 9 477 70 5 5707 71 2 4843 71 59 4020
	f the centwe.	2	10,000ths of oirole.	29-7858 28-8621 27-9404 27-0215 26-0724	26-1288 24-1742 23-2109 22-2344 21-2679	20.2814 10.2904 18.2806 17.2827 16.2788	15-2623 14-2356 13-2690 12-1823 11-1501	10-1007 9-0694 8-0210 6-9669 5-9129
	Sun's equation of the centre.	9	2.70	1	0 54 15-98 0 50 12-08 0 50 8-13 0 45 55-03	0 43 4847 0 41 4004 0 39 2994 0 37 1984 0 35 974	0 32 57-99 0 28 31-88 0 26 18-83 0 24 5-05	0 21 50-22 0 10 35-39 0 17 19-32 0 15 2-91 0 12 46-31
B-Contd.	ongitude.	20	10,000ths of circle.	1336-8559 1364-2337 1391-6116 1418-9995 1446-3773	14737551 1501-1330 1528-5108 1555-8857 1583-2666	1610-6444 1638-0223 1665-4601 1692-7780 1720-1658	1747-5337 1774-9115 1802-2894 1829-8672 1857-0451	1884-4229 1911-8008 1939-1786 1906-5305 1993-9343
TABLE XLVIII B-Cound	Sun's mean Longitude	+	# 1 O	48 7 37-82 49 6 45-99 50 5 54-16 51 5 2-33 52 4 10-50	58 3 18-67 54 2 26-84 55 1 35-01 56 0 43:18 56 59 51:35	57 58 59-51 58 58 7-68 59 57 15-85 60 56 24-02 61 55 32-19	62 54 40-36 63 53 48-53 64 52 56-70 65 52 4-87 96 51 13-04	67 50 21:21 68 40 29:38 69 48 37:55 70 47 45:72 71 46 53:89
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1	Sun's mean aromady (or mean sun's distance from perigee. point) (''c').	01		150 51-12282 151 50-25898 152 49-39514 153 48-53130 154 47-66746	155 46-80362 156 45-93978 157 45-07593 158 44-21209 159 43-34825	100 42-48441 161 41-62057 162 40-75673 103 30-89280 164 39-02906	165 38-16521 166 37-30137 167 36-43753 168 35-57369 169 34-70985	170 33-84601 171 32-98216 172 32-11832 173 31-25448 174 30-39064
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	4-8588 3-7990 2-7358 1-6726 0-6095	~		atre	0-4532 1-5164 2-5795 3-6427	1001	6-8078 8-8078	8-9084 9-9487	1656-01	300	14-0902	308	19-1444	and a	882	646	703
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		Sun in apogee															
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Present Sürya-Siddhänta	Sun's true Longitude (''8'').	0	10,000ths of circle.	2843-1513 2843-1513 2869-5945 2396-0506 2922-5068	2948-9029 2975-4641 3001-9613 3028-4585 3054-9007	3081-4944 3108-0281 3134-5018 3161-1312 3187-7005	3214-9798 3240-8592 3267-4647 3294-0897 3320-7147	3347-3396 3374-0111 3400-6863 3427-3615 3454-0360
sent Sür	" true Lo			7-24 12-41 19-45 28-16 36-88	45.50 0-15 14-18 28-22 42-91	25-98 25-98 25-98	50-67 15-35- 14-02 44-62	15-21 58-10 88-94 6-04 43-14
Pre	Sun	90		21822	C - + - 8	45 53 55 45 50 85 55	25223	82222
			0	55255	100 100 100 100 100 100 100 100 100 100	25555	116 118 119	82335
	Sun's equation of the centre.	1-	10,000ths of circle.	25-9252 26-8743 27-8089 28-7307 29-6524	30-5741 31-4507 32-3314 33-2121 34-0877	34-9318 35-7760 36-6201 37-4386 38-2372	39-0357 39-8342 40-6065 41-3594 42-1122	42-8651 43-5715 44-9769 45-6796
	equation	9	5	29.8 2.93 2.95 2.95	240 56-02 50-15 44-28 37-76	27.17 16-57 5-97 52-05 35-53	251 42.60 20-17 57-75	35.32 6.86 37.93 40-07
100	w,um,		0	1580014	81.918	88822	22228	84848
	- 30	P. Commercial Commerci		00000				
TABLE XLVIII B-Contd.	Sun's mean Longitude.	40	10,000ths of circle.	2842-6477 2870-0256 2897-4034 2924-7813 2962-1591	2979-5370 3006-9148 3034-2997 3001-6705	3116-4202 3143-8041 3171-1819 3108-6598 3225-9376	3253.3155 3280.6933 3308.0712 3335.4490 3362.8269	3390-2048 3417-5826 3444-9605 3472-3353 3490-7162
XLVII	a mean 1			7-14 15-31 23-48 31-65 39-82	47-99 56-16 4-33 12-50 20-67	28-84 45-18 53-35 1-52	9-69 17-86 26-03 34-20 42-37	50-54 58-71 6-88 15-04 23-21
ILE	Sim	15	5 4	81228	22223	15000	F-010+10	2108
TAE			0	102	58855	55255	1119	35255
	anomaly (or mean nee from perigee- point)	69	10,000ths of circle.	5096-1165 5723-4943 5750-8722 5778-2500 5805-6279	5833-0057 5860-3836 5887-7614 5915-1393 5942-5171	5995-8950 5997-2728 6024-6507 6052-0285 6079-4064	6106-7842 6134-1621 6161-5399 6188-9178 6216-2967	6243-6735 6271-0514 6298-4292 6325-8071 6335-1849
	Sun's mean anomaly (or mea sun's distance from perigee point) (**c**),	03	,	3-61158 2-74774 1-88390 1-02006 0-15622	58-29238 58-42854 57-56469 56-70085 55-83701	54-97317 54-10933 53-24549 52-38165 51-51781	50-65397 49-79013 48-92629 48-06245 47-19861	46-33477 45-47092 44-60708 43-74324 42-87940
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	3480-7574 3507-4828 3534-2081 3560-9429 3587-7266	3614-5661 3641-2862 3668-6835 3694-8329 3721-7723	3748-6117 3775-4765 3802-3752 3829-2740 3856-1727	3883-1102 3910-0683 3903-9844 3990-9980	4018-0199 4045-0418 4072-0676 4099-1535 4126-2393	4153-3251 4180-4202 4207-5709 4234-7256 4261-8753	4289-0486 4316-2576 4343-4767 4370-6757 4397-9415
	26-16 29-29 29-29	19-99 10-69 4-91 3-30 1-69	0.08 1.75 13.90 19.98	31-09 44-85 12-38 33-34	55-38 17-42 39-97 40-61	25.22 25.22 20.02 20.02 20.03	20-70 6-90 33-52 33-52
	81218	7 2 2 1 2 2 2	53 55 54	22223	825338	29823	48285
	88888	85555	136 135 137 138	83333	45578	149 152 153 153	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	46-3366 46-9891 47-6416 48-2816 48-8794	49-4771 50-0749 50-6455 51-1839 51-7224	52.2808 62.7739 53.2530 53.7321 54.2112	54-6516 55-0714 55-4912 55-9110 56-2752	56-6311 56-9870 57-3391 67-6311 67-9232	58.2152 58.4919 58.7201 58.9482 59.1764	59-3809 59-5498 59-7186 59-8874 59-9994
Ì	5-22 29-78 54-35 17-30 34-77	52:24 9-71 33:44 43:33 43:33	53-00 59-50 1-59 5-78	2-84 57-25 51-65 46-06 33-27	19-40 5-52 5-1-15 28-90 6-84	20.56 20.56 19.69 49.86	16-77 28-53 29-53 14-12 35-92
	32323	33432	58888	8860-	01 05 05 .44 10	2226	000000
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	3527-0840 3554-4719 3581-8497 3609-2276 3636-6054	3063-0833 3601-3611 3718-7390 3746-1168 3773-4947	3828-2504 3828-2504 3855-6282 3883-0061 3910-3839	3937-7618 3965-1396 3992-5175 4019-8953 4047-2732	4074-6510 4102-0289 4129-4067 4156-7846 4184-1624	4211-5403 4238-9181 4266-2960 4293-6739 4321-0517	4348-4296 4375-8074 4403-1853 4430-5631 4457-9410
=	31-38 39-55 4-06 4-06	20-40 20-40 28-57 36-74 41-91	53-08 1-25 9-42 17-59 25-76	33-93 42-10 50-27 58-44 6-61	14-77 31-11 47-45 47-45	25-62 11-96 20-13 28-30	36-47 44-64 62:81 9-15
	888888	28828	88868	32333	48882	88888	22222
	25225	28828	188 138	25523	32338	55 55 55 55 55 55 55 55 55 55 55 55 55	551 156 159 159 159 159
	6380-5628 6407-9406 6435-3185 6462-6963 6490-0742	6517-4520 6544-8299 6572-2077 6590-5856 6626-9634	6654-3413 6681-7191 6709-0970 6736-4748 6763-8527	6791-2305 6818-6084 6845-9862 6873-3641 6900-7419	6928-1198 6965-4976 6982-8755 7010-2533 7037-6312	7065-0090 7002-3869 7119-7648 7147-1426 7174-5205	7201-8983 7229-2762 7256-6540 7284-0319
	42-01556 41-15172 40-28788 39-42404 38-56020	37-69636 36-83252 35-96868 25-10484 34-24100	38-37715 32-51331 31-64947 30-78563 29-92179	29-05795 28-19411 27-33027 26-46643 25-60259	24-73875 23-87491 23-01107 22-14723 21-28338	20-41954 19-55570 18-69186 17-82802 16-96418	16-10034 15-23650 14-37266 13-50882 12-64498
	993338	28228	88 25 25 25 25 25 25 25 25 25 25 25 25 25	245 247 248 248 248	249 250 251 253 253	254 255 257 258 258	262 262 263 263 263
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Present Sarya-Siddlanta.	San's true Longitude (''S'').	6	10,000ths of circle.	4425-2190 4452-4965 4479-7739 4507-1187 4534-4847	4561-8106 4589-1651 4616-5740 4643-9847 4671-3943	4608-8238 4726-3020 4763-7803 4781-2586 4808-7655	4836-3132 4863-8598 4891-4995 4918-9871 4946-5931	4974-1891 5001-8051 5029-4757 5057-1456 5084-8154
resent S	s true Lo	File	ь	28.28 23.54 26.69 26.69	200 200 200 200 200 200 200 200 200 200	27-56 48-74 9-92 31-10 56-13	26-23 26-23 27-0 38-46 38-46	16.20 46.05 24.05 12.08
-	San	100	511	118 118 119	22222	2 30 30 to 20	000004	40000
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	Sun's equation of the centre.	2	10,000ths of circle.	00-000 00-3030 00-3030 00-3330	60-3975 60-4208 60-3889 60-3509 60-3250	60-2736 60-1732 60-0728 59-9724 39-8423	59-6734 59-5046 59-3358 59-1331 58-5049	58-0768 58-4486 58-1559 57-8038 67-5718
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TABLE XLVIII B	mean L	J.	1	17-32 25-49 33-66 41-83 50-00	0.84 0.34 14-51 22-67 30-84	39-01 47-18 55-35 3-52 11-09	10.88 36.63 51.53 52.53 52.53	8-88 17-05 17-05 33-39
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90-95128 800-6117 187 4 6-07 5231-807 2 5 6-85 56-85 56-951 189 2 68-88 2 90-95128 800-6117 187 4 6-07 5231-807 2 1 23-60 56-5054 185 2 42-47 529 417-2976 8102-2451 180 2 14-24 5231-807 2 1 23-60 56-5056 187 2 42-47 529 417-2976 8102-2451 180 2 14-24 5231-807 2 1 23-60 56-5056 187 2 42-47 52-4105 8102-2451 180 2 22-40 5231-807 2 1 23-60 56-505 189 2 42-47 52-4105 8102-2451 180 2 22-40 5231-807 2 1 5 6-523 180 2 42-47 52-4105 8102-2451 180 2 22-40 5231-807 2 1 5 6-523 180 2 42-47 52-4105 8102-2451 180 2 22-40 5231-807 1 5 6 5-52 1 5 6-523 180 2 42-88 52-52-51 180 2 22-40 5231-807 1 5 6 5-52 1 5 6-523 180 2 41-88 52-52-51 180 2 22-40 5231-807 1 5 6-523 1 5 6-523 1 180 2 41-88 52-52-51 180 2 22-40 5231-807 1 5 6-523 1 180 2 22-40 5231-807 1 5 6-523 1 180 2 41-88 52-52-51 180 2 22-40 5231-807 1 5 6-523 1 180 2 41-88 52-52-51 180 2 22-40 5231-807 1 180 2 22-40 5231-807 1 180 2 22-40 52-52-52-52-52-52-52-52-52-52-52-52-52-5</td><td>288 A0-18672 80 A1-567 81-56</td><td>286 50-18012 8002-2332 8000-2317 181 0 41-55 5100-7611 2 3 41-06 577-2683 181 2 59-68 20 45-4277 510-231 181 4 6-77 5221-8097 2 123-60 56-5050 187 2 42-47 2970 45-4277 181 4 6-77 5221-8097 2 123-60 56-5050 187 2 42-47 2970 45-42277 181 4 6-77 5221-8097 2 123-60 56-5050 187 2 42-47 2970 45-42277 181 5 4 57-30 5224-5200 187 2 123-60 56-5050 187 2 42-47 2970 45-5050 180 2 14-24 50 52-4-5200 180 2 4-58 520 52-4-5200 180 2 4-58 520 52-4-5200 180 2 4-58 520 520 520 520 520 520 520 520 520 520</td><td>288 400.0000000000000000000000000000000000</td><td>288 60.0 + 18.18 80.02 + 23.81 18.6 4 + 1.56 5 + 16.46 5 +</td><td>29.6 6.05/18712 8000-6117 6.05/18712 8.05/18712<td>298 60-18/12 800-6117 800 61-67 801 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800 64-73 800</td><td>289 60-28128 8000-6117 60-23239 189 6 44.55 5100-74430 2 2 65-85 5100-14</td><td>289 60-28128 8802-2339 186 6 41-56 519-74450 2 2 55-85 519-7450 2 2 56-85 519-7450 2 59-75 519-7450 2 2 56-85 519-7450 2 59-75 519-7450 2 2 56-85 519-7450 2 59-74 519-74
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Present Sarya-Siddhanta.	ongitude).	6	10,000ths of circle.	6091-3665 6119-7885 6148-0105 6176-2256 6204-4841	6232-7426 6261-0011 6289-2709 6317-5705 6345-8701	6374-1697 6402-4765 6430-8035 6459-1304 6487-4674	6515-8087 6544-1630 6572-5174 6600-8717 6629-2507	6657-6324 6686-0141 6714-3942 6742-7987 6771-2032
resent Sā	Sun's true Longitude (''8'').		4	47.02 42.16 42.16 41.14	43-44 45-74 49-61 47-78 47-78	12.39 20.96 32-13 43.30 54.48	8.81 23.53 38.25 52.97 10.89	29-16 47-43 5-48 17-94
7	Sun	00		11818181	88888	8888888	23272	32323
T,	1		0	619191919191919191919191919191919191919	222 226 226 227 228	98888	20222	88333
	Sun's equation of the centre.	7	10,000ths of circle.	36 4234 35 5792 34 7351 33 8979 35 0172	32,1366 31,2559 30,3639 29,4422 28,6205	27-5988 26-6697 25-7207 24-7716 23-8225	22-8490 21-8725 20-8960 19-9195 18-9184	17-9145 16-9107 15-9085 14-8818 13-8551
	uetion		à	40-47 51-07 1-67 13-16 19-03	24-90 30-76 35-16 35-71 36-25	23.55 23.55	91-23 14-67 8-12 1-67 51-82	41-72 31-62 21-74 8-68 55-63
	ge eg	10		22222	01-108-	52 53 51 51 51 51 51 51 51 51 51 51 51 51 51	32333	88288
	Sun		0			00000	00000	00000
TABLE XLVIII B-Contd.	Sun's mesa Longitude.	9	10,000ths of eircle.	6127-9899 6155-3678 6182-7456 6210-1235 6237-5013	6264-8792 6292-2570 6319-6349 6347-0127 6374-3906	6401-7684 6429-1463 6456-5241 6483-9020 6511-2798	6538-6577 6566-0355 6593-4134 6620-7912 6648-1691	6675-5469 6702-9248 6730-3026 6757-6805 6785-0583
VIII E	mesu I			27-49 35-66 43-83 52-00 0-17	8-34 16-51 24-68 32-85 41-02	49-19 57:36 5-53 13:70 21:87	30-03 38-20 46-37 54-54 2-71	10-88 19-05 27-33 35-39 43-56
X	Sun's	*	*	22222	228833	28888	23223	18 17 17 16 16
BLF			0	853855	25 25 25 25 25 25 25 25 25 25 25 25 25 2	23 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	25 25 25 25 25 25 25 25 25 25 25 25 25 2	25 25 25 25 25 25 25 25 25 25 25 25 25 2
T	Sun's mean anomaly (or mean sun's distance from perigee- point) (''C'').	69	10,000ths of circle.	8981 4587 9008 8365 9036 3144 9063 5922 9090-9701	9118.3479 9145.7258 9173.1036 9200-4815 9227.8593	9255-2372 9282-0150 9309-9929 9337-3707 9364-7486	9392-1264 9419-5043 9446-8821 9474-2600 9501-6378	9529-0157 9556-3935 9683-7714 9611-1492 9638-5271
	a mean anon distance fro point)	Ø1		19-95069 19-08685 18-22301 17-35917 16-49533	15-63148 14-76765 13-90381 13-03997 12-17613	11.31229 10-44844 9-58460 8-72076 7-85692	6-99308 6-12924 5-26540 4-41056 3-53772	2-67388 1-81004 0-94620 0-08236 59-21852
	Sun		0	322	329 331 331 331	333 334 335 336 337	340 340	24222
	4-baur periods from true Mēsha-sariikršuti.	1		252 252 252 253 253 253 253 253 253 253	233 233 233 234 234	238 239 240	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	246 245 245 260 260

	6799-6077 6828-0092 6856-4274 6884-8456 6913-2638	6941-6951 6970-1270 6998-5589 7026-9908 7055-4319	7083-8729 7112-3140 7140-7550	7116-5313		7169-1956 7197-6366 7226-0775 7254-5186 7282-9300	7311-3819 7339-8138 7368-2468 7396-6650 7425-0832	7453-5015 7481-9220 7510-3265 7538-7310 7567-1356	7395-5209 7623-9026 7652-2843 7680-6660 7709-0246
1	9-16 29-90 52-99 15-99 38-99	3-69 28-47 53-24 18-01 43-98	9-93 35-89 1-85	30.45		27-74 53-69 19-65 45-61 10-32	35-10 59-87 24-79 47-79 10-79	33-79 57-09 18-32 39-54 0-77	19-51 37-78 56-05 14-32 29-58
	52 52 52 52 52 52 52 52 52 52 52 52 52 5	258888	-01-	91		20801	182238	28888	82888
-	245 245 245 247 248	252	255	257		260 260 261 262 263 263	265 265 265 265 265	250 272 272 272 272	872 872 872 872 872
	12-8285 11-8049 10-7645 9-7242 8-6838	7-6303 6-5763 5-5222 4-4682 3-4049	2-3418 1-2786 0-2154	0.0	till it reaches 180°.) Sun's equation of the centre,	0-8472 1-9104 2-9736 4-0367 5-0903	6-1444 7-1984 8-2536 9-2940 10-3343	11-8747 12-4174 13-4440 14-4707 15-4974	16-5049 17-5088 18-5126 19-5165 20-4971
i	29-91 15-98 15-98 15-58	28-68 28-68 21-28 21-28	3-49 45-71 27-92	0.0	caches 180 quation o	49-80 7-59 25-38 43-16 59-71	16-31 32-92 49-67 4-50 19-33	34-16 49-29 15-40 28-46	39-03 49-13 59-23 43-43
	18888	22200	10 01 0	0	n's e	14980	22122	22222	82832
	00000	00000	000	0	10° ti	00000	00000	00000	00000
2	6812-4362 6839-8140 6807-1919 6894-5697 6921-9476	6949-3254 6976-7033 7004-0812 7031-4590 7058-8369	7086-2147 7113-5926 7140-9704	7156-5313	in anomaly=30	7168-3483 7196-7261 7223-1040 7250-4818 7277-8597	7305-2375 7332-6154 7359-9932 7387-3711 7414-7489	7442-1268 7469-5046 7496-8825 7524-2603 7551-6382	7579-0160 7606-3939 7633-7717 7661-1496 7688-5274
ĺ	50-73 59-90 8-07 16-24 14-41	32.58 40.75 48.92 57.09 5.26	13-43 21-60 29-77	30-45	er his mea	37-83 46-10 54-27 2-44 10-61	18-78 26-95 36-12 51-26 51-46	59-63 7-80 15-97 24-14 32-31	48-65 56-82 4-99 13-16
eil	42331	30877	004	16	s, aft	89770	55 57 55 55	22222	34444
	248 248 248 249	25,25,25	858 857 857	257	. plu	258 259 260 261 261 262	268288	7888 54 1288 5	272 272 274 272
	9665-9049 9693-2828 9720-6606 9748-0385 9775-4163	9802-7942 8830-1721 9867-5499 9884-9277 9912-3056	9939-6835 9967-0613 9994-4392	0-00001	equation of centre is +, plus, after his mean anomaly=360° till it reaches 180°.)	21-8170 49-1949 76-5727 103-9506 131-3284	158-7063 186-0841 213-4620 240-8398 268-2177	295-5955 322-9734 350-3512 377-7291 406-1069	432-4848 459-8626 487-2405 514-6183 541-9962
	58.35467 57.49083 56.62699 55.76315 54.89931	54-03547 53-17163 52-30779 51-44395 60-58011	49-71627 48-85243 47-98859	0.0	(The Sun's equal)	47-12475 46-20090 45-39706 44-53922 43-66938	42-80554 41-94170 41-07786 40-21402 39-35018	38-48634 37-62250 36-75866 35-89482 35-03098	34-16713 33-30329 32-43945 31-57561 30-71177
	347 348 350 350	352 354 354 356	357 358 359	360	(T)	0-0164	400-00	21224	132 136 136 136 136 136 136 136 136 136 136
	262 262 263 264 264	95 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	261 262 263	Bun in perigee		264 266 266 267	99999999999999999999999999999999999999	472 872 772 772 872	278 282 282 282 282 282

Present Sürya-Siddhänta.	ongitude).	6	10,000ths of circle.	7737-3789 7765-7332 7794-0875 7822-4176 7850-7445	7879-0715 7907-4012 7935-7008 7962-2999	8020-5803 8048-8388 8077-0073 8105-3558 8133-5958	\$161-\$178 \$190-0398 \$218-2618 \$246-4412 \$274-6176	8302-7939 8330-9703 8359-1035 8387-2343 8415-3650
esent Sür	Sun's true Longitude (''8').			44-30 59-02 13-74 25-32 36-49	47-66 59-20 6-82 14-45 22-07	228 228 228 228 228	31.58 29.15 26.73 18.78 10.44	25.00 25.00 25.00 11.31
7	Sur	00	*	22222	88444	44444	52 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	32882
			0	278 280 281 282	282 282 282	288 888 888 888 888 888 888 888 888 888	84888	300 300 300 300 300 300
	Sun's equation of the centre +	4	10,000ths of circle.	21-4736 22-4501 23-4265 24-3787 26-3278	26-2769 27-2288 28-1505 29-0723 29-9940	30-8965 31-771 32-8578 33-5384 34-4005	36-2447 36-0886 36-9330 37-7346 38-5331	29-3316 40-1301 40-8855 41-6384 42-3913
	quation +	1	*	22-98 29-53 36-08 39-48 42-49	48-86 48-86 47-77 47-22	44-18 38-32 32-45 26-68 18-31	7-71 86-52 30-40 13-89	57-38 40-87 18-76 56-34 33-91
114	n, n	9		44884	380014	8 8 5 5 1 Z	82222	38885
tde	200		0	00000	00+++			
TABLE XLVIII B-Contd.	Sun's mean Longitude	10	10,000ths of circle.	7715-9053 7743-2831 7770-6610 7798-0388 7825-4167	7852-7945 7880-1724 7807-5503 7884-9281 7962-3060	7989-6838 8017-0617 8044-4395 8071-8174 8090-1952	8126-5731 8153-9509 8181-3288 8208-7066 8236-0845	8263-4623 8290-8402 8318-2180 8345-5959 8372-9737
GE XI	s mean L		k)	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2017 10-34 18-51 34-85	43-02 51-19 58-36 7-53 15-70	22.04 32.04 48.33 56.55	12.89 29.23 37.40
AB	Sun'	*	*	34444	\$4488 884 88	28883	88288	88588
I			0	752 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	888888	288 888 889	22222	300 300
	Sun's mean anomaly (or mean sun's distance from perigee-point) (''c'').	8	10,000ths of circle.	568.3740 596.7519 624.1297 651.5076 678.8854	706-2633 733-6412 761-0190 788-3969 815-7747	843-1526 870-5304 897-9083 925-2861 952-6640	980-0418 1007-4197 1034-7975 1062-1764 1089-55532	1116-9311 1144-3089 1171-6868 1199-0646 1226-4425
	sm's mean anomaly (or messun's distance from perige- point) (''(2')).	01	*:	29-84793 28-98409 28-12025 27-25641 26-39257	25-52873 24-66489 23-80105 22-93721 22-07336	21.20952 20.34568 19-48184 18-61801 17-75416	16-89032 16-02648 15-16264 14-29880 13-43496	12-57112 11-70728 10-84343 9-97959 9-11575
	Sun,	1 120	0	ឧដ្ឋានន	មឧបឧម	82882	882888	84881
	4 hour periods from true Misha-samkranti	-	H HA	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	280 290 291 292 293 293	294 294 294 294 298	299 300 301 302 302	304 305 305 307 307
	Man Man							

	8443-4808 8471-5613 8490-6419 8527-7224 8555-7880	8583 8192 8611 8496 8639 8800 8667 8776 8695-8532	8723 8288 8751-8044 8770-7309 8807-6472 8835-5634	8863-4797 8891-3487 8919-2056 8947-0626 8974-9181	9002-7158 9030-5134 9058-3110 9086-0934 9113-8272	9141-5609 9169-2947 9197-0009 9224-6708 9252-3407	9280-0105 9307-6415 9385-2475 9362-8535 9390-4595
1	55-11 34-35 52-83 30-24	36.93 26.93 2.67	28-21 53-85 13-12 49-02	6-97 18-79 29-05 39-31 49-39	51-96 54-54 57-70 52-00	31.32 31.32 3.32 3.35 3.35	8-07 8-07 8-07 8-07 23-56
			000444	-0100	10 10 10 10 10	4484	44488
	305 305 306 306 58 0	310	315 315 317 318	320 321 322 323 323	# 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	330	333 335 337 337
+						Service Control of the //www.com/security	
	43-1292 43-8319 44-5346 46-2373 46-9259	46-5784 47-2309 47-8834 48-5032 49-1009	49-6987 50-2964 50-8451 51-3835 51-9219	52-4604 52-9515 53-4306 53-9097 54-3873	54-8071 55,2269 55,6467 56-0512 56-4071	56-7030 57-1190 57-4473 57-7394 58-0314	58-3234 58-5765 58-8047 59-0328 59-2610
İ	9-54 40-61 11-68 12-60 12-60	36-56 1-13 25-69 46-01 3-48	20.95 38.42 49.52 59.30 9.08	18.86 24.65 28.45 28.45 28.45 28.45 28.45	20.25.4 20.25.	36-49 22-62 5-17 43-02 20-87	38-72 31-61 30-65 0-23
	22222	33322	# 4453	22332	8600	01004470	00110
					01 01 01	01 01 01 01 01	01 01 01 01 01
	8400-3516 8427-7294 8465-1073 8482-4851 8509-8630	8537-2408 8564-6187 8591-9965 8619-3744 8646-7522	8674-1301 8720-85079 8728-8858 8756-2636 8783-6415	8811-0194 8838-3972 8805-7751 8893-1529 8920-5308	8947-9086 8975-2865 9002-0643 9030-0422 9057-4200	9084-7979 9112-1757 9139-5536 9166-9314 9194-3093	9249-0600 9249-0600 9276-4428 9300-8207 9331-1985
1	45.56 53.73 10.07 18.24	28 42 34 52 42 53 53 53 53 53 53 53 53 53 53 53 53 53	7.26 15-43 13-71 39-94	48 11 26 28 20 79 20 79	28-96 37-13 45-30 53-46 1-63	9-80 17-97 26-14 34-31 42-48	58-82 58-82 6-99 15-16 23-33
	តននានាត	811818	22223	100 00 8	1-01044	801-08	883338
	302 303	308 308 310 311	312 314 315 315 316	317 318 319 320 321	35 35 35 35 35 35 35 35 35 35 35 35 35 3	33088	333
	1253-8203 1281-1982 1308-5760 1335-9539 1363-3317	1390-7096 1418-0874 1445-4653 1472-8431 1500-2210	1527-5988 1554-9767 1582-3545 1609-7324 1637-1103	1664-4881 1691-8660 1719-2438 1740-6217 1773-9995	1801-3774 1828-7552 1856-1331 1883-5109 1910-8888	1938-2066 1965-6446 1993-0223 2020-4002 2047-7780	2075-1559 2102-5337 2129-9116 2157-2894 2154-6673
	8-25191 7-38807 6-52423 5-66039 4-79655	3-93271 3-06887 2-20503 1-34118 0-47735	59-61351 58-74966 57-88582 57-02198 56-15814	55-29430 54-43046 53-56662 52-70278 51-83894	50-97510 50-11126 49-24742 48-38358 47-51974	46-65589 45-79205 44-92821 44-06437 43-20053	42-33669 41-47285 40-66901 39-74517 38-88133
	33233	52 52 52 52 52 52 52 52 52 52 52 52 52 5	28888	88688	98228	32128	125578
1	300 315 315 313 313	316 316 317 317 318	88888	325 325 325 325 325 325 325 325 325 325	889 880 888 888 888	338 338 338 338 338 338	340
1				~			

Present Sarya-Siddhants.	Sun's true Longitude (''8'').	0	10,000ths of circle.	9418-0199 9478-1133 9500-6462 9528-1244	9555-6026 9583-0809 9610-5349 9665-3544	9692-7642 9720-1417 9747-4876 9774-8336 9802-1795	9829-4805 9850-7580 9884-0354 9911-3129 9938-5353	9965-7443
sent Sår	("\$").		ŧ	25-38 25-43 55-48 44-92 44-92	6.10 57.58 57.63 9.94	30-37 30-37 38-43 42-46	40-67 35-83 30-99 26-15 14-17	0-46
Pre	Sun,	00		01010	022 228 00	32.22.23	28882	34
		T H	0	333 341 342 343	347934	348 349 351 351	353 354 356 356 357	358
	Sun's equation of the centre.	1-	10,000ths of circle.	59-4435 59-0123 59-7812 09-9362 60-0368	60-1370 60-2374 60-3136 60-3455 60-3455	60-4083 60-4090 60-3770 60-3451 60-3132	60-2363 60,1360 60-0356 59-8352 59-7797	59-6109 59-4420
	astion of +		5	23.88 45.76 47.74 40.74	53-76 6-77 16-64 20-77	29-05 24-86 20-72 16-50	6-63 27-60 7-46 7-45	45-57
	s equ	9	*	000000	62999	22222	2000	00 00
	Sam.		0	01 01 01 01 01	01 01 01 01 01	61 61 61 61 61	01 01 01 01 01	01.01
	ngitude.	9	10,000ths of circle.	9358-5764 9385-9542 9413-3321 9440-7099 9468-0878	9495-4656 9522-8435 9550-2213 9577-5992 9604-9770	9632-3549 9669-7327 9687-1106 9714-4885 9741-8663	9769-2442 9786-6220 9823-9099 981-3777 9878-7556	9906-1334
	Sm's mean Longitude.		1	31-50 39-67 47-84 56-01 4-18	20-52 20-52 28-62 36-86 45-63	53-19 1-36 9-53 17-70 25-87	24 52 52 52 52 52 52 52 52 52 52 52 52 52	14.89
	s.m.			18322	84844	33233	19888	36
	on.	10	0	336 335 339 340	345	346 345 348 349 350	355 351	356
	Sun's mean aromaly (or mean sun's distance from perigee- point) (''c'').	8	10,000ths of circle.	2212-0451 2235-4230 2266-8008 2294-1787 2321-6565	2348-9344 2376-3122 2403-6901 2431-0679 2458-4458	2485-8236 2513-2015 2540-5794 2567-9572 2567-9572	2622-7129 2650-0908 2677-4686 2704-8465 2732-2243	2759-6022 2786-9800
	sun's mean anomaly (or measun's distance from perige- point) ('`C').	67	3	38-01749 37-15363 36-28981 35-42597 34-56212	33-69828 32-83444 31-97060 31-10676 30-24292	29-37908 28-51524 27-65140 26-78756 25-92372	25-05988 24-19604 23-33216 22-46835 21-60451	19-74067
	Sun's	-11	o	68238	22828	88558	98 98 97 88	100
	Meha-samkraati.	1		344 345 346 347 347	349 350 351 352 353	354 355 356 357 367	359 360 361 362 363	364

TABLE XLIX.

ELEMENTS OF THE SUN'S TRUE LONGITUDE.

Hours.

N.B.—Column I corresponds to the 24-hour periods, measured from true Mesha-samkranti, entered in Column I Tables XLVIII A and B. In the present Table they are grouped in conformity with the Hindu Sine-Table. Figures in Columns 4 to 6 give the actual area travelled on the celliptic by the true sun in the given number of hours. For minutes see Table L, following. The Table is exact for the First Arka-Siddhanta, but can be used for all the Hindu authorities.

Grouping of the days.

- (a) Days I to 85 in order, and in reverse order days 86 to 164.
- (b) Days 165 to 267 in order, and in reverse order days 268 to 363.
- (c) Days 363 to 365 are grouped with Day I.

This arrangement had to be adopted to prevent the size of the Table being doubled.

24-hour perioda from true Měsha- samkrānti (inclusive).	Are travelled b in 24 ho	y true sun urs.		Åre t	ravelled by	true sun p	er hour.	
	0 , "	10,000ths of circle.	No. of Hours.	7 1	10,000ths of circle.	No. of hours.	* *	10,000ths of circle.
1	2	3	4_	5	6	4	5	6
363 to 1 } 162 to 164 }	0 58 46:29	27-2090	1 2 3 4 5 6 7 8 9 10 11 12	2 26·93 4 53·86 7 20·79 9 47·71 12 14·64 14 41·57 17 8·50 19 35·43 22 2·36 24 29·29 26 56·22 29 23·14	1·1337 2·2674 3·4011 4·5348 5·6685 6·8023 7·9360 9·0697 10·2034 11·3371 12·4708 13·6045	13 14 15 16 17 18 19 20 21 22 23	31 50 07 34 17 00 36 43 93 39 10 86 41 37 79 44 4 72 46 31 65 48 58 57 51 25 50 53 52 43 56 19 36	14-7382 15-8719 17-0056 18-1394 19-2731 20-4068 21-5405 22-6742 23-8079 24-9416 26-0753
2 to 5 } 158 to 161 }	0 58 38-01	27-1451	1 2 3 4 5 6 7 8 9 10 11 12	2 26.58 4 53.17 7 19.75 9 46.34 12 12.92 14 39.50 17 6.09 19 32.67 21 59.25 24 25.84 26 52.42 29 19.01	1-1310 2-2621 3:3931 4-6242 5-6552 6-7863 7-9173 9-0484 10-1794 11-3105 12-4415 13-5726	13 14 15 16 17 18 19 20 21 22 23	31 45·59 34 12·17 36 38·76 39 5·34 41 31·92 43 58·51 46 25·09 48 51·68 51 18·26 53 44·84 56 11·43	14-7036 15-8347 16-9657 18-0968 19-2278 20-3689 21-4899 22-6210 23-7520 24-8831 26-0141

TABLE XLIX-Contd.

24-hour periods from true Měsha- samkránti (inclusive).	Arc travelled b	y true sun ars.	Are travelled by true sun per hour.							
	0 / "	10,000ths of circle.	No. of Hours.		10,000ths of circle.	No. of hours.	(F) #	I0.000th# of circle.		
1	2	3	4	5	6	4	5	6		
6 to 8 154 to 157}	0 58 29-73	27-0813	1 2 3 4 5	2 26-24 4 52-48 7 18-72 9 44-96 12 11-19	1-1284 2-2568 3-3852 4-5135 5-6419	13 14 15 16 17	31 41·10 34 7·34 36 33·58 38 59 82 41 26 06	14 6690 15-7974 16-9258 18-0542 19-1826		
			6 7 8 9 10 11 12	14 37-43 17 3-67 19 29-91 21 56-15 24 22 39 26 48-63 29 14-87	6-7703 7-8987 9-0271 10-1555 11-2839 12-4122 13-5406	18 19 20 21 22 23	43 52:30 46 18:54 48 44:78 51 11:02 53 37:25 56 3:49	20·3109 21·4393 22·5677 23·6961 24·8245 25·9529		
9 to 12 150 to 153)	0 58 2145	27-0174	1 2 3 4 5 6 7 8 9 10 11 12	2 25·89 4 51·79 7 17·68 9 43·58 12 9·47 14 35·36 17 1·26 19 27·15 21 53·04 24 18·94 26 44·83 29 10 73	1·1257 2·2514 3·3772 4·5029 5·6286 6·7543 7·8801 9·0058 10·1315 11·2572 12·3830 13·5087	13 14 15 16 17 18 19 20 21 22 23	31 36-62 34 2-51 36 28-41 38 54-30 41 20-20 43 46-09 46 11-98 48 37-88 51 3-77 53 29-66 55 55-56	14-6344 15-7601 16-8859 18-0116 19-1373 20-2630 21-3888 22-5145 23-6402 24-7659 25-8917		
13 to 10 (147 to 149)	0 58 13-17	26-9535	1 2 3 4 5 6 7 8 9 10 11 12	2 25 55 4 51 10 7 16 65 9 42 20 12 7 74 14 33 29 16 58 84 19 24 39 21 49 94 24 15 49 26 41 04 29 6 59	1-1231 2-2461 3-3692 4-4923 5-6153 6-7384 7-8614 8-9845 10-1076 11-2306 12-3537 13-4768	13 14 15 16 17 18 19 20 21 22 22 23	31 32·14 33 57·68 36 23·23 38 88·78 41 14·33 43 39·88 46 5·43 48 30·98 50 56·53 53 22·08 55 47·62	14 5998 15 7229 16 8459 17 9690 18 0921 20 2351 21 3382 22 4613 23 5843 24 7074 25 8304		
17 to 20 } 143 to 146 }	0 58 540	26-8942	1 2 3 4 5 6 7 8 9 10 11 12	2 25-23 4 50 46 7 15-69 9 40-91 12 6-14 14 31-37 16 56-60 19 21-83 21 47-06 24 12-29 26 37-51 29 2-74	1·1206 2·2412 3·3618 4·4824 5·6030 6·7235 7·8441 8·9647 10·0853 11·2059 12·3265 13·4471	13 14 15 16 17 18 19 20 21 22 23	31 27-97 33 53-20 36 18-43 38 43-66 41 8-89 43 34-11 45 59-34 48 24-57 50 49-80 53 15-03 55 40-26	14-5677 15-6883 16-8089 17-9295 19-0500 20-1706 21-2912 22-4118 23-5324 24-6530 26-7736		

TABLE XLIX-Contd.

24-hour periods from true Mësha- samkranti (inclusive).	Are travelled b		Are travelled by true sun per hour.								
	0 / #	10,000ths of circle.	No. of hours.	3 2	10,000ths of circle.	No. of hours.	, "	10,000ths of circle.			
1	2	3	4	5	6	4	5	6			
21 to 24 ? 139 to 142 }	0 57 57-80	26-8349	1 2 3 4 5 6 7 8 9 10 11 12	2 24.91 4 49.82 7 14.72 9 39.63 12 4.54 14 29.45 16 54.36 19 19.27 21 44.17 24 9.08 26 33.99 28 58.90	1-1181 2-2362 3-3544 4-4725 5-5906 6-7087 7-8268 8-9450 10-0631 11-1812 12-2993 13-4174	13 14 15 16 17 18 19 20 21 22 23	31 23·81 33 48·72 36 13·62 38 38·53 41 3·44 43 28·35 45 53·26 48 18·17 50 43·07 53 7·98 55 32·89	14:5356 15:6537 16:7718 17:8899 19:0080 20:1261 21:2443 22:3624 23:4805 24:5986 25:7167			
25 to 28 } 135 to 138 }	0 57 50-70	26-7801	1 2 3 4 5 6 7 8 9 10 11 12	2 24-61 4 49-23 7 13-84 9 38-45 12 3 06 14 27-68 16 52-29 19 16-90 21 41-51 24 6-13 26 30-74 28 55-35	1-1158 2-2317 3-3475 4-4634 5-5792 6-6950 7-8109 8-9267 10-0425 11-1484 12-2742 13-3901	13 14 15 16 17 18 19 20 21 22 23	31 19 96 33 44 58 36 9 19 38 33 80 40 58 41 43 23 03 45 47 64 48 12 25 50 36 86 53 1 48 55 26 09	14 5059 15-6217 16-7376 17-8534 18 9693 20-0851 21 2009 22 3168 23-4326 24-5485 25-6643			
29 to 31 } 131 to 134 }	0 57 43-60	26-7254	1 2 3 4 5 6 7 8 9 10 11 12	2 24·32 4 48·63 7 12·95 9 37·27 12 1·58 14 25·90 16 50·22 19 14·53 21 38·85 24 3·17 26 27·48 28 51·80	1-1136 2-2271 3-3407 4-4542 5-5678 6-6813 7-7949 8-9085 10-0220 11-1356 12-2491 13-3627	13 14 15 16 17 18 19 20 21 22 23	31 16·11 33 40·43 36 4·75 38 29·06 40 53·38 43 17·70 45 42·01 48 6·33 50 30·65 52 54·96 55 19·28	14-4762 15-5898 16-7033 17-8169 18-9305 20-0440 21-1576 22-2711 23-3847 24-4982 25-6118			
32 to 35 }	0 57 37-10	26-6752	1 2 3 4 5 6 7 8 9 10 11 12	2 24·05 4 48·09 7 12·14 9 36·18 12 0·23 14 24·28 16 48·32 19 12·37 21 36·41 24 0·46 26 24·50 28 48·55	1-1115 2-2229 3-3344 4-4459 5-5573 6-6688 7-7803 8-8917 10-0032 11-1147 12-2261 13-3376	13 14 15 16 17 18 19 20 21 22 23	31 12-60 33 36-64 36 0-69 38 24-73 40 48-78 43 12-83 45 36-87 48 0-92 50 24-96 52 49-01 55 13-05	15:5605 16:6720 17:7834 18:8945 20:0064 21:1176 22:2293 23:3402 24:4522			

TABLE XLIX-Contd.

24 hour periods from true Mësha- samkranti (inclusive).	Are travelled b			Are travelled by true sun per hour.								
	0 , #	10,000ths of circle.	No. of hours.		10,000ths of circle.	No. of hours.	. "	10,000ths of circle.				
1	2	3	4	5	6	4	5	6				
36 to 39 124 to 126 }	0 57 31-19	26-6295	1 2 3 4 5 6 7 8 9 10 11 12	2 23-80 4 47-60 7 11-40 9 35-20 11 59-00 14 22-80 16 46-60 19 10-40 21 34-20 23 57-99 26 21-79 28 45-59	1-1096 2-2191 3-3287 4-43-3 5-5478 6-6574 7-7669 8-8765 9-9861 11-0956 12-2052 13-3148	13 14 15 16 17 18 19 20 21 22 23	31 9:39 33 33:19 35 56:99 38 20:79 40 44:59 43 8:39 45 32:19 47 55:99 50 19:79 52 43:59 55 7:39	14-4243 15-5339 16-6435 17-7530 18-8626 19-9721 21-0817 22-1913 23-3008 24-4104 25-5200				
40 to 43 }	0 57 25-27	26-5839	1 2 3 4 5 6 7 8 9 10 11 12	2 23 55 4 47-11 7 10 66 9 34-21 11 57-77 14 21-32 16 44 87 19 8-42 21 31 98 23 53 53 26 19-08 28 42-64	1-1077 2-2153 3-32:0 4-4306 5-5383 6-6460 7-7536 8-8613 9-9690 11-0766 12-1843 13-2919	13 14 15 16 17 18 19 20 21 22 22 23	31 6·19 33 29·74 35 53·30 38 16·85 40 40·40 43 3·96 45 27·51 47 51·06 50 14·61 52 38·17 55 1·72	14-3996 15-5073 16-6149 17-7226 18-8303 19-9379 21-0456 22-1532 23-2009 24-3686 25-4762				
44 to 47 ? 116 to 119 3	0 57 19-95	26-5428	1 22 3 4 5 6 7 8 9 10 11 12	2 23·33 4 46·66 7 9·99 9 33·33 11 56·66 14 19·99 16 43·32 19 6·65 21 21·98 23 53·31 26 16·64 28 39·98	1:1060 2:2119 3:3179 4:4238 5:5298 6:6457 7:7417 8:8476 9:9536 11:0595 12:1655 13:2714	13 14 15 16 17 18 19 20 21 22 23	31 3:31 33 26:64 35 49:97 38 13:30 40 36:63 42 59:96 45 23:29 47 40:63 50 996 52 33:29 54 56:62	14·3774 15·4833 16·5893 17·6952 18·8012 19·9071 21·0131 22·1190 23·2250 24·3309 25·4369				
48 to 50 112 to 115}	0 57 15-22	26-5063	1 2 3 4 5 6 6 7 8 9 10 11 12	2 23·13 4 46·27 7 9·40 9 32·54 11 55·67 14 18·81 16 41·94 19 5·07 21 28·21 23 51·34 26 14·48 28 37·61	1-1044 2-2089 3-3133 4-4177 5-5222 6-6266 7-7310 8-8354 9-9399 11-0443 12-1487 13-2532	13 14 15 16 17 18 19 20 21 22 23	31 0 74 33 23 88 35 47 01 38 10 15 40 33 28 42 56 42 45 19 55 47 42 68 50 5 82 4 52 28 95 54 52 09	14-3576 15-4620 16-5665 17-6709 18-7753 19-8797 20-9842 22-0886 23-1930 24-2975 25-4019				

TABLE XLIX-Contd.

	1	-		-	_	_	-	_				
24-hour periods from true Měsha- samkranti (inclusive).	Are travelled 1 in 24 ho		Are travelled by true sun per hour.									
	0 1 11	10,000ths of circle.	No. of hours.		10,000ths of circle.	No. of hours,	* "	10,000ths of circle.				
1	2	3	4	5	6	4	5	6				
51 to 54 108 to 111 }	0 57 10-49 0 57 6-94	26-4698 26-4424	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 4 5 6 6 7 8	2 22-94 4 45-87 7 8-81 9 31-75 11 54-69 14 17-62 16 40-56 19 3-56 19 3-56 12-31 28 35-24 2 22-79 4 45-58 7 8-37 9 31-16 11 53-95 14 16-74 16 39-52 19 2-31	1-1029 2-2058 3-3087 4-4116 5-5145 6-6175 7-7204 8-8233 9-9262 11-0291 12-1320 13-2349 1-1018 2-2035 3-3053 4-4071 5-5088 6-6106 7-7124 8-8141	13 14 15 16 17 18 19 20 21 22 23 23 13 14 15 16 17 18 19 20 20 21 22 22 23	30 58·18 33 21·12 35 44·06 38 6·99 40 29·93 42 52·87 45 15·80 47 38·74 50 1·68 52 24·62 54 47·55 30 56·26 33 19·05 35 41·84 38 4·63 40 27·42 42 50·21 45 13·00 47 35·78	14-3378 15-4407 16-5436 17-6466 18-7495 19-8524 20-9553 22-0582 23-1611 24-2640 25-3669 14-3230 15-4248 16-5265 17-6283 18-7301 19-8318 20-9336 22-0354				
59 to 52 101 to 104 }	0 57 3-98	26-4196	9 10 11 12 1 2 3 4 5 6 7 8	21 25-10 23 47-89 26 10-68 28 33-47 2 22-67 4 45-33 7 8-00 9 30-66 11 53-33 14 16-00 16 38-66 19 1-33 21 23-99	9-9159 11-0177 12-1195 13-2212 1-1008 2-2016 3-3025 4-4033 5-5041 6-6049 7-7057 8-8065 9-9074	21 22 23 13 14 15 16 17 18 19 20 21	49 58-57 52 21-36 54 44-15 30 54-60 33 17-32 35 39-99 38 2-66 40 25-32 42 47-99 45 10-65 47 33-32 49 55-99	23-1371 24-2389 25-3407 14-3106 15-4115 16-5123 17-6131 18-7139 19-8147 20-9155 22-0164 23-1172				
63 to 66 } 97 to 100 }	0 57 1-03	26-3968	10 11 12 1 2 3 4 5 6 7 8 9 10	23 46-66 26 9-33 28 31-99 2 22-54 4 45-09 7 7-63 9 30-17 11 52-71 14 15-26 16 37-80 19 0-34 21 22-89 23 45-43 26 7-97	11-0082 12-1090 13-2098 1-0999 2-1997 3-2996 4-3995 5-4993 6-5992 7-6991 8-7989 9-8988 10-9987 12-0085	22 23 13 14 15 16 17 18 19 20 21 22 22	52 18-65 54 41-32 30 53-06 33 15-60 35 38-14 38 0-69 40 23-23 42 45-77 45 8-31 47 30-86 49 53-40 52 15-94 54 38-48 [24-2180 25-3188 14-2983 15-3981 16-4980 17-597 18-6977 19-7976 20-8975 21-9973 23-0972 24-1971 25-2970				

TABLE XLIX-Contd.

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24-hour periods from true Mesha- namkranti (inclusive).	Arc tra	velled b	y true sun urs.		Are	travelled by	true sun	per hour,	
-American	0	, ,	10,000ths of circle.	No. of hours	, "	10,000ths of circle.	No. of hours.	, "	10,000ths of circle.
1		2	3	4	5	6	4	5	6
67 to 69 } 93 to 96 }	0 56	58-66	26-3786	1 2 3 4 5 6 7 8 9 10 11 12	2 22-44 4 44-89 7 7-33 9 29-78 11 52-22 14 14-67 16 37-11 18 59-55 21 22-00 23 44-44 26 6-80 28 29-33	1-0991 2-1982 3-2973 4-3964 5-4955 6-5946 7-6937 8-7929 9-8920 10-9911 12-0902 13-1893	13 14 15 16 17 18 19 20 21 22 23	30 51-78 33 14-22 35 6-66 37 59-11 40 21-55 42 44-00 45 6-44 47 28-89 49 51-33 52 13-77 54 36-22	14-2884 15-3875 16-4866 17-5857 18-6848 19-7839 20-8830 21-9821 23-0812 24-1804 25-2795
70 to 73 } 89 to 92 }	0 56	56-89	26-3649.	1 2 3 4 5 6 7 8 9 10 11 11 12	2 22:37 4 44:74 7 7:11 9 29:48 11 51:85 14 14:22 16 36:59 18 58:96 21 21:33 23 43:70 26 6:07 28 28:44	1-0985 2-1971 3-2956 4-3941 5-4927 6-5912 7-6898 8-7883 9-8868 10-9854 12-6839 13-1824	13 14 16 16 17 18 19 20 21 22 23	30 50·81 33 13·18 35 35·55 37 57·93 40 20·30 42 42·67 45 5·04 47 27·41 49 40·78 52 12·15 54 34·52	14-2810 15-3795 16-4780 17-5766 18-6751 19-7737 20-8722 21-9707 23-0693 24-1678 25-2663
74 to 77 80 to 88		55-71	26-3558	1 2 3 4 5 6 7 8 9 10 11 12	2 22·32 4 44·64 7 6·96 9 29·28 11 51·61 14 13·93 16 36·25 18 58·57 21 20·89 23 43·21 26 5·53 28 27·86	1-0982 2-1963 3-2945 4-3926 5-4908 6-5889 7-6871 8-7853 9-8834 10-9816 12-0797 13-1779	13 14 15 16 17 18 19 20 21 22 23	30 50-17 33 12-49 35 34-82 37 57-14 40 19-46 42 41-78 45 4-10 47 26-42 49 48-74 52 11-06 54 33-38	14-2760 15-3742 16-4723 17-5705 18-6687 19-7668 20-8650 21-9631 23-0613 24-1594 25-2576
(78 to 85 tirne sun in apagee on Day 31).	0 54	55-11	26-3512	1 2 3 4 5 6 6 7 8 8 10 11 12	2 22:30 4 44:59 7 6:89 9 29:19 11 51:48 14 13:78 16 36:07 18 58:37 21 20:07 23 42:96 26 5:26 28 27:56	1-0980 2-1959 3-2939 4-3919 5-4898 6-5878 7-6858 8-7837 9-8817 10-9797 12-0776 13-1756	13 14 15 16 17 18 19 20 21 22 22	30 49·85 33 12·15 35 34·45 37 56·74 40 19·04 42 41·34 45 3·63 47 29·93 49 48·22 52 10·52 54 32·84	14-2738 15-3715 16-4695 17-5675 18-6654 19-7634 20-8614 21-9593 23-0573 24-1653 26-2332

TABLE XLIX-Contd.

24-hour periods					Arc travelled by true sun per hour.								
from true Mësha- samkranti (inclusive).	Arc travelled b in 24 hot			Are tr	avelled by ti	rue sun pe	r nour.						
	a , ,	10,000ths of circle	No. of hours.	, "	10,000ths of circle.	No. of hours.	, "	10,000ths of circle.					
1	2	3	4	5	6	4	5	6					
	For all days (Co	lumn 1) from	86 to 164	see above, tak	ing the numb	ers of days	backwards.	12 7 m					
165 to 168 (360 to 362)	0 58 55-16	27-2775	1 2 3 4	2 27-30 4 54-60 7 21-90 9 49-19	1-1366 2-2731 3-4097 4-5462	13 14 15 16	31 54·88 34 22·18 36 40·48 39 16·77	14-7753 15-9119 17-0484 18-1850					
			4 5 6 7 8 9	12 16-49 14 43-79 17 11-00 19 38-39 22 5-69	5-6828 6-8914 7-9559 9-0925 10-2291	17 18 19 20 21	41 44-07 44 11:37 46 38-67 49 5:97 51 33:27	19-3215 20-4581 21-5947 22-7312 23-8678					
		- terminal	10 11 12	24 32:08 27 0:28 29 27:58	11-3656 12-5022 13-6387	22 23	54 0-56 56 27-86	25:0043 26:1409					
169 to 172 } 356 to 359 }	0 59 4-03	27-3459	1 2 3 4 5 6 7 8	2 27.67 4 55.34 7 23.00 9 50.67 12 18.34 14 46.01 17 13.68	1-1394 2-2788 3-4182 4-5577 5-0971 6-8365 7-9750	13 14 15 16 17 18 19 20	31 59-68 34 27-35 36 55-02 39 22-69 41 50-36 44 18-02 46 45-69 49 13-36	14-8124 15-9518 17-0912 18-2306 19-3700 20-5094 21-6489 22-7883					
			9 10 11 12	19 41-34 22 9-01 24 36-68 27 4-35 29 32-02	9-1153 10-2547 11-3941 12-5335 13-6730	21 22 23	51 41-03 54 8-69 56 36-36	23-9277 25-0671 26-2065					
173 to 176 } 352 to 355 }	0 59 12-31	27-4098	1 2 3 4 5 6 7 8 9 10 11 12	2 28-01 4 56-03 7 24-04 9 52-05 12 20-06 14 48-08 17 16-09 19 44-10 22 12-12 24 40-13 27 8-14 29 36-15	1·1421 2·2841 3·4262 4·5683 5·7104 6·8524 7·9945 9·1366 10·2787 11·4207 12·5628 13·7049	13 14 15 16 17 18 19 20 21 22 23	32 4-17 34 32-18 37 0-19 39 28-21 41 56-22 44 24-23 46 52-25 49 20-26 51 48-27 54 16-28 56 44-30	14-8470 15-9890 17-1311 18-2732 19-4153 20-5573 21-6994 22-8415 23-9836 25-1256 26-2677					
177 to 180 348 to 351	0 59 51-18	27-4782	1 2 3 4 5 6 7 8 9 10 11 12	2 28-38 4 56-77 7 25-15 9 53-53 12 21-91 14 50-30 17 18-68 19 47-06 22 15-44 24 43-83 27 12-21 29 40-59	1-1449 2-2890 3-4348 4-5797 5-7246 6-8696 8-0145 9-1594 10-3043 11-4493 12-5942 13-7591	13 14 15 16 17 18 19 20 21 22 23	32 8-97 34 37-36 37 5-74 39 34-12 42 2-50 44 30-89 46 59-27 49 27-65 51 56-03 54 24-42 56 52-80	14-8840 16-0290 17-1739 18-3188 19-4638 20-6087 21-7536 22-8985 24-0435 25-1884 26-333\$					

TABLE XLIX-Contd.

24-hour periods from true Měsha- samkrānti (inclusive).	Arc travelled b in 24 ho	y true sun	Are travelled by true sun per hour.								
	0 , "	10,000ths of circle.	No. of hours.		10,000ths of circle.	No. of hours.		10,000ths of circle.			
1	2	3	4	5	6	4	5	6			
181 to 184 } 344 to 347 }	0 59 30-05	27-5467	1 2 3 4 5 6 7 8 9 10 11 12	2 28·75 4 57·50 7 26·26 9 55·01 12 23·76 14 52·51 17 21·26 19 50·02 22 18·77 24 47·52 27 16·27 29 45·03	1·1478 2·2956 3·4433 4·5911 5·7389 6·8867 8·0345 9·1822 10·3300 11·4778 12·6256 13·7733	13 14 15 16 17 18 19 20 21 22 23	32 13·78 34 42·53 37 11·28 39 40·03 42 8·79 44 37·54 47 6·29 49 35·04 52 3·79 54 32·55 57 1·30	14·9211 16·0689 17·2167 18·3645 19·5122 · 20·6600 21·8078 22·9556 24·1034 25·2511 26·3989			
185 to 187) 341 to 343)	0 59 38-33	27-6106	1 2 3 4 5 6 7 8 9 10 11 12	2 29·10 4 58·19 7 27·29 9 56·39 12 25·49 14 54·58 17 23·68 19 52·78 22 21·87 24 50·97 27 20·07 20 49·16	1·1504 2·3009 3·4513 4·6018 5·7522 6·9026 8·0531 9·2035 10·3540 11·5044 12·6548 13·8053	13 14 15 16 17 18 19 20 21 22 23	32 18·26 34 47·36 37 16·46 39 45·55 42 14·65 44 43·75 47 12·84 49 41·94 52 11·04 54 40·14 57 9·23	14-9557 16-1062 17-2567 18-4070 19-5575 20-7079 21-8584 23-0088 24-1592 25-3097 26-4601			
188 to 191) 337 to 340)	0 59 46-61	27-6745	1 2 3 4 5 6 7 8 9 10 11	2 29.44 4 58.88 7 28.33 9 57.77 12 27.21 14 56.65 17 26.09 19 55.54 22 24.98 24 54.42 27 23.86 29 53.30	1-1531 2-3062 3-4593 4-6124 5-7655 6-9186 8-0717 9-2248 10-3779 11-5310 12-6841 13-8372	13 14 15 16 17 18 19 20 21 22 23	32 22.75 34 52.19 37 21.63 39 51.07 42 20.51 44 49.96 47 19.40 49 48.84 52 18.28 54 47.72 57 17.17	14-9903 16-1434 17-2965 18-4496 19-6027 20-7558 21-9089 23-0620 24-2151 25-3682 26-5213			
192 to 195 } 333 to 336 }	0 59 54-89	27:7383	6 7 8 9 10 11	2 29-79 4 59-57 7 29-36 9 59-15 12 28-93 14 58-72 17 28-51 19 58-30 22 28-08 24 57-87 27 27-66 29 57-44	1·1558 2·3115 3·4673 4·6231 5·7788 6·9346 8·0903 9·2461 -10·4019 11·5576 12·7134 13·8692	13 14 15 16 17 18 19 20 21 22 23	32 27-23 34 57-02 37 26-80 39 56 59 42 26-38 44 56-17 47 25-95 49 55-74 52 25-53 54 55-31 57 25-10	15-0249 16-1807 17-3365 18-4922 19-6480 20-8037 21-9595 23-1153 24-2710 25-4268 26-5826			

TABLE XLIX-Contd.

							100			
24-hour periods from true Mësha- samkränti (inclusive).	Are travelled b		Are travelled by true sun per hour.							
	0 , #	10,000ths of circle.	No. of hours.	2 "	10,000ths of circle.	No. of hours.		10,000ths of circle.		
1	2	3	4	5	6	4	5	6		
196 to 199 } 529 to 332 }	1 0 3-17	27-8022	1 2 3 4 5 6 7 8 9 10 11 12	2 30-13 5 0-26 7 30-40 10 0-53 12 30-66 15 0-79 17 30-92 20 1-06 22 31-19 25 1-32 27 31-45 30 1-58	1-1584 2-3169 3-4753 4-6337 5-7921 6-9506 8-1090 9-2764 10-4258 11-5843 12-7427 13-9011	13 14 15 16 17 18 19 20 21 22 23	32 31-72 35 1-85 37 31-98 40 2-11 42 32-24 45 2-38 47 32-51 50 2-64 52 32-77 55 2-90 57 33-03	15-0595 16-2180 17-3764 18-5348 19-6932 20-8517 22-0101 23-1685 24-3269 25-4854 26-6438		
200 to 203 325 to 328 }	1 0 10-85	27-8615	1 2 3 4 5 6 7 8 9 10 11 12	2 30-45 5 0-90 7 31-36 10 1-81 12 32-26 15 2-71 17 33-17 20 3-62 22 34-07 25 4-52 27 34-98 30 5-43	1-1609 2-3218 3-4827 4-6436 5-8045 6-9654 8-1263 9-2872 10-4481 11-6090 12-7699 13-9308	13 14 15 16 17 18 19 20 21 21 22 23	32 35-88 35 6-33 37 36-78 40 7-24 42 37-69 45 8-14 47 38-59 50 9-05 52 59-50 55 9-95 57 40-40	15-0917 16-2526 17-4135 18-5744 19-7353 20-8961 22-0570 23-2179 24-3788 25-5397 26-7006		
204 to 206) 321 to 324)	1 0 18-54	27-9209	1 2 3 4 5 6 7 8 9 10 11 12	2 30-77 5 1-55 7 32-32 10 3-09 12 33-86 15 4-64 17 35-41 20 6-18 22 36-95 25 7-73 27 38-50 30 9-27	1-1634 2-3267 3-4901 4-6535 5-8168 6-9802 8-1436 9-3070 10-4703 11-6337 12-7971 13-9604	13 14 15 16 17 18 19 20 21 22 23	32 40-04 35 10-82 37 41-59 40 12-36 42 43-13 45 13-91 47 44-68 50 15-45 52 46-22 55 17-00 57 47-77	15-1238 16-2872 17-7505 16-6139 19-7773 20-9406 22-1040 23-2674 24-4307 25-5941 26-7575		
207 to 210 318 to 320 3	1 0 25-64	27-9756	1 2 3 4 5 6 7 8 9 10 11 12	2 31-07 5 2-14 7 33-20 10 4-27 12 35-34 15 6-41 17 37-48 20 8-55 22 39-61 25 10-68 27 41-75 30 12-82	1-1657 2-3313 3-4970 4-6626 5-8283 6-9939 8-1506 9-3252 10-4909 11-6565 12-8222 13-9878	13 14 15 16 17 18 19 20 21 22 23	32 43·89 35 14·76 37 46·02 40 17·09 42 48·16 45 19·23 47 50·30 50 21·37 52 52·43 55 23·50 57 54·57	15-1535 16-3191 17-4848 18-6504 19-8161 20-9817 22-1474 23-3130 24-4787 25-6443 26-8100		

TABLE XLIX-Contd.

24-hour periods from true Měsha- samkränti (inclusivo).	Are travelled by true sun in 24 hours.					avelled by t	rue sun pe	rue sun per hour.			
4.24	0	110	*	10,000ths of circle.	No. of hours.	× 7	10,000ths of circle.	No. of hours.		10,000ths of circle.	
1		2		3	4	5	6	4	5	6	
211 to 214) 314 to 317)	1	0	32-74	28-0304	1 2 3 4 5 6 7 8 9 10 11 12	2 31·36 5 2·73 7 34·09 10 5·46 12 36·82 15 8·18 17 39·55 20 10·91 22 42·28 25 13·64 27 45·00 30 16·37	1-1679 2-3359 3-5038 4-6717 5-8397 7-3076 8-1755 9-3435 10-5114 11-6793 12-8472 14-0152	13 14 15 16 17 18 19 20 21 22 23	32 47-73 35 19-10 37 50-46 40 21-82 42 53-19 45 24-55 47 55-92 50 27-28 52 58-64 55 30-01 58 1-37	15-1831 16-3510 17-5190 18-6869 19-8548 21-0228 22-1007 23-3586 24-5266 25-6945 26-8624	
215 to 218) 310 to 313)	1	0	39-24	28-0806	1 2 3 4 5 6 7 8 9 10 11 12	2 31-63 5 3-27 7 34-90 10 6-54 12 38-17 15 9-81 17 41-44 20 13-08 22 44-71 25 16-35 27 47-98 30 19-62	1-1700 2-3400 3-5101 4-6801 5-8501 7-0201 8-1902 9-3602 10-5302 11-7002 12-8703 14-0403	13 14 15 16 17 18 19 20 21 22 23	32 51-25 35 22-89 37 54-52 40 26-16 42 57-79 45 29-43 48 1-06 50 32-70 53 4-33 55 35-97 58 7-60	15-2103 16-3803 17-5503 18-7204 19-8904 21-0604 22-2304 23-4005 24-5705 25-7405 26-9105	
219 to 223 306 to 300 j	1	0	45-15	28-1202	1 2 3 4 5 6 7 8 9 10 11 12	2 31-88 5 3-76 7 35-64 10 7-53 12 39-41 15 11-29 17 43-17 20 15-05 22 46-93 25 18-81 27 50-70 30 22-58	1-1719 2-3438 3-5158 4-6877 5-8596 7-0315 8-2035 9-3754 10-5473 11-7192 12-8912 14-0631	13 14 15 16 17 18 19 20 21 22 22 23	32 54-46 35 26-34 37 58-22 40 30-10 43 1-98 45 33-87 48 5-75 50 37-63 53 9-51 55 41-39 58 13-27	15-2350 16-44-69 17-5789 18-7508 19-9227 21-0946 22-2666 23-4385 24-6104 25-7823 26-9543	
223 to 225 302 to 305	1	0	51-07	28-178	1 2 3 4 5 6 7 8 9 10 11 12	27 53-41	7-0430 8-2168 9-3906 10-5644 11-7383 12-9121	13 14 15 16 17 18 19 20 21 22 23	32 57-66 35 29-70 37 1-92 40 34-04 43 6-17 45 38-30 48 10-43 50 42-56 53 14-68 55 46-81 58 18-94	15-2507 16-43.6 17-6074 18-7812 19-9570 21-1289 22-3027 23-471.5 24-65-3 25-8242 26-9080	

TABLE XLIX-Contd.

24-hour periods - from true Mēsha- samkrānti (inclusive).	Are travelled b		Are travelled by true sun per hour.								
	0 . #	10,000ths of circle.	No. of Hours.	- 6	*	10,000ths of circle.	No. of Hours.		10,000ths of circle.		
1	2	3	4		5	6	4	5	6		
226 to 229 } 299 to 301 }	1 0 56-39	28-2129	1 2 3 4 5 6 7 8 9	2 5 7 10 12 15 17 20 22 25 27	32·35 4·70 37·05 9·40 41·75 14·10 46·45 18·80 51·15 23·50 55·85	1-1755 2-3511 3-5266 4-7021 5-8777 7-0532 8-2288 9-4043 10-5798 11-7554 12-9309	13 14 15 16 17 18 19 20 21 22 23	33 0-54 35 32-89 38 5-24 40 37-59 43 9-94 45 42-29 48 14-64 50 46-99 53 19-34 55 51-69 58 24-04	15-2820 16-4575 17-6331 18-8086 19-9841 21-1597 22-3352 23-5107 24-6863 25-8618 27-0373		
230 to 233 } 295 to 298 }	1 1 1-12	28-2494	12 2 3 4 5 6 7 7 8 9 10 11 12	2 5 7 10 12 15 17 20 22 25 27 30	28-19 32-55 5-09 37-64 10-19 42-73 15-28 47-83 20-37 52-92 25-47 58-01 30-56	14-1064 1-1771 2-3541 3-5312 4-7082 5-8853 7-0623 8-2394 9-4615 10-5935 11-7706 12-9476 14-1247	13 14 15 16 17 18 19 20 21 22 23	33 3-11 35 35-65 38 8-20 40 40-75 43 13-29 45 45-84 48 18-39 50 50-93 53 23-48 55 56-03 58 28-57	15-3108 16-4788 17-6559 18-8329 20-0100 21-1870 22-3641 23-5412 24-7182 25-8953 27-0723		
234 to 237 } 291 to 294 }	1 1 5-85	28-2859	1 2 3 4 5 6 7 8 9 10 11 12	2 5 7 10 12 15 17	32-74 5-49 38-23 10-98 43-72 16-46 49-21 21-95 54-69 27-44 0-18 32-93	1-1786 2:3572 3-5357 4-7143 5-8929 7-0715 8-2501 9-4286 10-6072 11-7858 12-9644 14-1429	13 14 15 16 17 18 19 20 21 22 23	33 5-67 35 38-41 38 11-16 40 43-90 43 16-64 45 49-39 48 22-13 50 54-88 53 27-62 56 0-36 58 3-11	15-3215 16-5001 17-6787 18-8573 20-0358 21-2144 22-3940 23-5716 24-7502 25-9287 27-1073		
238 to 241 } 287 to 290 }	1 1 940	28-3133	1 2 3 4 5 6 7 8 9 10 11	15 17 20 22 25 28	32·89 5·78 38·67 11·57 44·46 17·35 50·24 23·13 56·02 28·92 1·81 34·70	1-1797 2-3594 3-5392 4-7189 5-8986 7-0783 8-2580 9-4378 10-6175 11-7972 12-9769 14-1566	13 14 15 16 17 18 19 20 21 22 23	33 7-59 35 40-48 38 13-37 40 46-27 43 19-16 45 52-05 48 24-94 50 57-83 53 30-72 56 3-62 58 36-51	15-3364 16-5161 17-6958 18-8755 20-0552 21-2350 22-4147 23-5944 24-7741 25-9538 27-1335		

TABLE XLIX-Contd.

24-hour periods from true Měsha- samkränti (inclusi ve).	Arc	trave in	lied by	y true sun ars.	Arc travelled by true sun per hour.								
TOTAL .	0			10,000ths of circle.	No. of Hours.	<i>i. w</i>	10,000ths of circle.	No. of Hours.		10,000ths of circle.			
1	i	2		3	4	5	6	4	5	6			
242 to 244) 283 to 286)	1	i	12-36	28-3361	1 2 3 4 5 6 7 8 9 10 11	2 33-01 5 6-03 7 39-04 10 12-06 12 45-07 15 18-09 17 51-10 20 24-12 22 57-13 25 30-15 28 3-16 30 36-18	5-9034 7-0840 8-2647 9-4454 10-6260 11-8067 12-9874	13 14 15 16 17 18 19 20 21 22 23	33 9-19 35 42-21 38 15-22 40 48-24 43 21-25 45 54-27 48 27-28 51 0-30 53 33-31 56 6-33 58 39-34	15-3487 16-5294 17-7101 18-8907 20-0714 21-2521 22-4327 23-6134 24-7941 25-9747 27-1554			
245 to 248 } 280 to 282 }		1	15-31	28-3589	1 2 3 4 5 6 7 8 9 10 11 12	2 33·14 5 6-29 7 39·4 10 12-5 12 45-69 15 18·83 17 51·9 20 25·10 22 58·24 25 31·33 28 4·5 30 37·60	3 2-3632 3-5449 4-7265 5-9081 7-0897 8-2713 9-4530 4 10-6346 3 11 8162 2 12-9978	13 14 15 16 17 18 19 20 21 22 23	33 10-79 35 43-93 38 17-07 40 50-21 43 23-35 45 56-48 48 29-62 51 2-76 53 35-90 56 9-04 58 42-18	15·3611 16·5427 17·7243 18·9059 20·0876 21·2602 22·4508 23·6324 24·8140 25·9957 27·1773			
249 to 252 276 to 279	1	1	16-03	28-3771	1 2 3 4 5 6 7 8 9 10 11 12	2 33.1° 5 6.3° 7 39.5° 10 12.6° 12 45.8° 15 19.0° 17 52.1° 20 25.3° 22 58.5° 22 58.5° 25 31.6° 28 4.8° 30 38.0°	4 2-3648 9 3-5471 7 4-7295 4 5-9119 1 7-0943 8 8-2767 4 9-4590 1 10-6414 8 11-8238 5 13-0062	17 18 19 20 21 22 23	33 11-18 35 44-35 38 17-52 40 50-69 43 23-86 45 57-02 48 30-19 51 3-36 53 36-53 56 9-70 58 42-86	15-3710 16-5533 17-7357 18-9181 20-1005 21-2829 22-4652 23-6452 24-8300 26-0124 27-1948			
253 to 256 272 to 275			19 45	28-3908	1 2 3 4 5 6 7 8 9 10 11	7 39-0 10 13-2 12 46-5 15 19-8 17 53-1 20 26-4 22 59-7 25 33-1 28 6-4	2 2-3659 3 3-5489 4 4-7218 5 5-9148 6 7-997 7 8-2807 8 9-4630 9 10-6400 1 11-8290 2 13-0120	14 15 16 17 18 19 20 3 21 5 22 5 23	35 46-35 38 19-66 40 52-97 43 26-28 45 59-59 48 32-90 51 6-21 53 39-52 56 12-83	16-5613 17-7443 18-9272 20-1102 21-2931 22-4761 23-6590 24-8420 26-0248			

TABLE XLIX-Contd.

24-hour periods from true Mësha- samkranti (inclusive).	Are travelled b in 24 ho	y true sun		Are travelled by true sun per hour.							
	0 / //	10,000ths of circle.	No. of Hours.	œ	"	10,000ths of circle.	No. of hours.			10,000ths of circle.	
1	2	3	4		5	6	4		5	6	
257 to 260 268 to 271	1 1 20-64	28-4000	1 2 3 4 5 6 7 8 9 10 11 12	2 5 7 10 12 15 17 20 23 25 28 30	33-36 6-72 40-08 13-44 46-80 20-16 53-52 26-88 0-24 33-60 6-96 40-32	1-1833 2-3667 3-6500 4-7333 5-9167 7-1000 8-2833 9-4667 10-6500 11-8333 13-0166 14-2000	13 14 15 16 17 18 19 20 21 22 22 23	33 35 38 40 43 46 48 51 53 56 58	13-68 47-04 20-40 53-76 27-12 0-48 33-84 7-20 40-56 13-92 47-28	15-3833 16-5666 17-7500 18-9333 20-1166 21-3050 22-4833 23-6666 24-8500 25-0333 26-2166	
261 to 267 (True sun in perigee, on Day 263).)	1 1 21-23	28-4045	1 2 3 4 5 6 7 8 9 10 11 12	2 5 7 10 12 15 17 20 23 25 28 30	33-38 6-77 40-15 13-54 46-92 20-31 53-69 27-08 0-46 33-84 7-23 40-61	1·1835 2·3670 3·5506 4·7341 5·9176 7·1011 8·2847 9·4682 10·6517 11 8352 13·0187 14·2023	13 14 15 16 17 18 19 20 21 22 23	33 35 38 40 43 46 48 51 53 56 58	14-00 47-38 20-77 54-15 27-54 0-92 34-30 7-69 41-07 14-46 47-84	15-3858 16-5693 17-7528 18-9364 20-1199 21-3034 22-4869 23-6704 24-8540 26-0375 27-2210	

TABLE L.

ELEMENTS OF THE SUN'S LONGTITUDE.

MINUTES.

The figures in Columns 2, 3, show the sun's mean movement during the times noted in Column 1.

Time Mins.	, w.	10,000ths of circle.	Time Mins.	1 "	10,000ths of circle.	Time Mins.	9 "	10,000ths of circle.
1	2	3	1	2	3	1	2	3
1	0 1.23	0-0095	21	0 51-74	0-3993	41	1 41-02	0-7795
1	0 2-46	0-0190	22	0 54-21	0.4183	42	1 43-49	0.7985
2 3 4	0 4-93 0 7-39	E0025406	23	0 56-67	0-4373	43	1 45-95	0.817
3	0 7-39	0.0760	24	0 59-14	0-4563	44	1 48-42	0.836
	0 12:32	The state of the s	25	1. 1.60	0.4753	45	1 50.88	0.855
5 6	0 14-78		26	1 4.06	0-4943	46	1 53-34	0.874
7	0 17-25		27	1 6-53	0.5133	47	1 55-81	0-893
8	0 19-71		28	1 8-99	0.5323	48	1 58-27 2 0-74	0-912
9	0 22-18		29	1 11-46	0-5514	49 50	2 3.20	0-950
10	0 24-64		30	1 13-92	0-5704 0-5894	51	2 5-66	0-969
10	0 27-10	0.2091	31	1 16-38 1 18-85	0-6084	52	2 0.74 2 3.20 2 5.66 2 8.13	0-988
12	0 29-57		32	1 21-31	0-6274	53	2 10-59	1-007
13	0 32-03		33 34	1 23-78	0-6464	54	2 13.06	1-026
12 13 14	0 34-50		35	1 26-24	0.6654	55	2 10-59 2 13-06 2 15-52	1-043
15	0 36-90		36	1 28-70	0.6844	56	2 17.98	1.06
16	0 39-45	The second second second	37	1 31-17	0.7035	57	2 17·98 2 20-45	1-083
17	0 41-89	The second second	38	1 33-63	0.7225	58	2 22-91	1.103
18	0 44-33	10000000000000000000000000000000000000	39	1 36-10	0.7415	59	2 25-38 2 27-84	1-12
19	0 46-82		40	1 38-56	0.7605	60	2 27.84	1.140

N. B.—Since this Table shows the sun's mean motion during the number of minutes indicated, a slight correction must be made in order to ascertain his true motion, if very great accuracy is required. The largest possible correction, namely for 59 minutes on the days 81 and 263 (when the sun is in apogee and largest possible correction, namely for 59 minutes on the days 81 and 263 (when the sun is in apogee and perigee and is therefore at his slowest and quickest) is, on Day 81, minus 5"-4516 or 0-0421, and on Day 263 plus the same.

Hence on Day 81 the true sun's journey in 59 m. must be taken as (by the Table, 2' 25*-38-5*-45=) 2' 19*-93, or (by the Table, 1-1217-0-0421=) 1-0796; and on Day 263 as (2' 25*-38+5*-45=) 2' 30*-83, or (1-1217+0-042=) 1-1638.

It is not necessary to frame a Table to meet corrections less than this. Calculation can always be made by taking from the Hour Table (Table XIJX) the true sun's motion in one hour on the day in question, dividing this by 60, and, multiplying the result by the number of minutes concerned.

TABLE L-A.

ELEMENTS OF THE SUN'S LONGITUDE.

Seconds.

· Cols. 2, 3, shew the Sun's mean movement during times noted in Col. 1.

Time	"	10,000ths of circle.	Time seconds.	".	10,000ths of circle.	Time seconds.	H	10,000ths of circle.
1	2	3	1	2	3	1	2	3
1	0-041	0-0003	21	0.862	0.0067	41	1-684	0-013
2	0.082	0-0006	22	0.903	0.0070	42	1-725	0.013
1 2 3 4 5	0.123	0-0010	23	0-945	0.0073	43	1-766	0.013
-4	0-164	0-0013	24	0.986	0.0076	44	1.807	0.013
5	0-205	0.0016	25	1-027	0.0079	45	1.848	0-014
6	0.246	0.0019	26	1.068	0.0082	46	1.889	0-014
6 7	0.287	0-0022	27	1-109	0.0086	4.7	1.930	0-014
8	0.329	0-0025	28	1-150	0.0089	48	1-971	0-013
9	0.370	0.0029	29	1-191	0.0092	49	2-012	0.01
10	0-411	0-0032	30	1.232	0.0095	50	2-053	0.01
11	0.452	0-0035	31	1-273	0.0098	51	2-094	0-016
12	0-493	0-0038	32	1.314	0.0101	52	2-135	0-010
13	0.534	0-0041	33	1.355	0.0105	53	2-177	0-010
14	0.575	0-0044	34	1.396	0.0108	54	2-218	0.01
15	0.616	0-0048	35	1.437	0.0111	55	2-259	0.01
16	0.657	0-0051	36	1-478	0.0114	56	2*300	0-01
17	0-698	0-0054	37	1.519	0.0117	57	2-341	0-01
18	0.739	0-0057	38	1.561	0.0120	58	2-382	0-01
19	0.780	0-0060	39	1 602	0.0124	59	2-423	0-01
20	0.821	0.0063	40	1.643	0.0127	60	2.464	0-01

The Table follows M. de Rice's fixture of the sun's mean movement in I time-minute by the Siddhanta-Siromani viz. 2"-464,008,788, or 0-019,012,414.

THE TRUE LONGITUDE OF THE SUN IN HINDU ASTRONOMY, PART II. THE SIDDHĀNTA-ŚIRŌMANI.

(Previously published in Epigraphia Indica, Vol. XIV, pp. 241-264.)

257. In my last article I have given Tables for finding the longitude of the sun, both mean and true, at any time of any year according to two of the great Indian astronomical authorities, the First Arya-Siddhānta or Aryabhatīya of Āryabhata (A.D. 499) and the Present Sārya-Siddhānta (exact date unknown, introduced about A.D. 1100). The present Table affords similar information for the Siddhānta-Śirōmani (12th century).

In case my Tables should be considered over-minute in detail, running as the entries do to several decimal points, I would ask readers to remember that they are designed as standard Tables for the settlement of the closest possible cases. Such a case as is mentioned in my former paper (above, §§ 206, 207, on the Cycle of Jupiter, p. 2) proves that permanent reference Tables can hardly be too accurate. I have found other cases somewhat similar in calculating the intercalated and suppressed lunar months by the Siddhānta-Śirōmani. In ordinary cases it will always suffice to work with merely the whole numbers.

Elements of the Siddhanta-Siromani.

258. The Siddhanta-Siromani by Bhaskaracharya dates, it is believed, from about A.D. 1150, though Dr. Bhau Dāji (J. R. A. S. n. s. I. 392) placed it in about 1105. It was used in some tracts and for some periods—we have yet to learn which—for the preparation of local almanacs.

According to this authority the length of the year from mean Mēsha-samkrānti to mean Mēsha-samkrānti is 365d 6h 12m 9° or 365d-258437500.

Its sine-values of angles are the same as in the Arya- and Sürya-Siddhäntas, with radius taken as equal to 3438'.

For the sun's mean motion in days, hours, etc., see Table XLII1 above.

The twenty-four base equations are given in col. 9 of Table XLVII above with the differences per minute of anomaly angle (col. 10), and in fuller detail in Table XLVII, A, cols, 9-10.

The epicycle of the sun not being considered as contracted at any part of the orbit, as it is in the $S\bar{a}rya\text{-}Siddh\bar{a}nta$, and the circumference of the epicycle being given as 13° 40′ or 820′, the equation (α being the sun's mean anomaly, or the angular distance of the mean sun from the

perigee-point of his orbit) is
$$\frac{13^{\circ} 40'}{360^{\circ}}$$
 sin. α , or $\frac{820'}{21600}$ sin. α , or finally $\frac{41}{1080}$ sin. α .

This Siddhanta postulates a constant forward shift in the line of apsides of the sun's orbit. This shift is more rapid than the Sarya-Siddhanta's shift and amounts to 0'.0174 or 1".044 per annum, and to 11' 18" '6 or 11'.31 in the 650 years succeeding A.D. 1100.1

According to the Siddhanta-Sirōmani the Kaliyaga began, or in other words K. Y. O began, with a conjunction at celestial longitude 0° or 360° of mean sun, mean moon and other planets at the moment of mean sunrise or 6 a.m. on Friday 18th February B.C. 3102 or 18th

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The shift according to the Arya-Siddhanta is nil.

Brahma-Siddhanta 0° 144 per ann.

Sūrya-Siddhanta 0° 1161 ,,

Siddhanta-Śirōmani 1° 044 ,,

2nd Ārya-Şiddhanta 0° 1383 ,,

(Jacobi, Epig. 2nd. I. 441.)
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February 0^h 0^m 0^s Laaka time. This was the moment of mean Mēsha-sankrānti in that year. True Mēsha-sankrānti, the moment when the true or apparent sun touched long. 0°, occurred by the same authority on Tuesday 15th Feb. in that year at 19^h 52^m 21½ after mean sunrise.

The interval between these two occurrences, which we call the \$\delta d b y a\$, and which is the time occupied by the sun in travelling over the arc of the equation-angle, was 2\dangle 171971 or 2\dangle 4\dangle 7^m 38\dangle in K.Y. 0 according to Dr. Schram's calculation (see "Indian Chronography," Tables p. 16).\dangle 1

259. In the matter of the sun's equation and true longitude it should be noted that every entry in cols. 6 to 9 of Table XLVIII C has been separately calculated from the value of his mean anomaly at each twenty-four-hour period measured from the moment of true Mēsha-samkrānti, by use of the Siddhānta-Śirōmani equation Table.

260. The forward shift of the sun's apsis, while leaving the sun's mean longitude unaffected, causes a slight change every year in the sun's mean anomaly (his mean distance from the perigee-point), this becoming each year proportionally less as the perigee-point moves forward. And since the shift induces a corresponding, though very minute, change in the velocity of the sun (considered as a planet) at all times of the year, the sun's equation and true longitude are each year a little different from what they were in the year previous.

The change in mean anomaly is stated in Table LI below.

The change caused by the shift of the apsis in the equation and true longitude of the sun at true Měsha-samkranti amounts to only 2° (actually 1° 9675) in the 300 years on either side of K.Y. 4500, which is the base-year of the train Table XLVIII C which follows,—the annual change being at the rate of about 0° 0066 per annum.

The corresponding time-difference, or change in the \$5dhya-value, is about 0*16 per annum (actually 0*15975) by which amount the \$5dhya-value at true Mēsha-samkrānti increases every year. In 300 years this amounts to 47*925 or about 48*. (For particulars see Table LII.)

261. The length of the solar year from mean Mēsha-samkrānti to mean Mēsha-samkrānti according to this Siddhānta being 365d 6h 12m 9s, it differs from that of the Ārya-Siddhānta year of 365d 6h 12m 30s by 21s every year since K.Y. 0. The difference-Table given in Indian Chronography, p. 61, is here reprinted for ready reference (Table LIII). The difference is cumulative from K.Y. 0. In A.D. 1120, which is the very earliest date possible for the Siddhānta-Sirāmani to have come into use (it was probably 30 years later), the moment of mean Mēsha-samkrānti by that authority was already 1d 0h 37m 21s earlier than the same according to the Ārya-Siddhānta, and the difference between them increased with every subsequent year. Consequently both mean and true Mēsha-samkrānti by the Siddhānta-Širāmani always fell respectively on the day previous to their occurrence by Ārya-Siddhānta reckoning, the time of which is given in the "Indian Calendar," Table I, cols. 13 to 17.

When therefore we are examining a date and have worked in the ordinary way for settlement of details by the $\tilde{A}rya$ -Siddhanta, using the $Indian\ Calendar\ process$ for finding the values a, b, c, s and n, if we desire to find roughly the value of s according to the Siddhanta-Siromani by use of the new Table XLVIII C below for determination of the nakshatra by that authority we must take the Table value of s (cols. 8-9) not for the day-number given in the Table, but for the day next following. E.g., if we suppose that preliminary examination of a date by the $Indian\ Calendar\ process\ proves$ the record-date to be Day 120 (as measured from 1st Jan.) and that Table I, cols. 13-17, shews that by the Arya-Siddhanta true Mesha-samkrarti took place on Day 85, then in order to ascertain the equation and longitude of the sun by the

Yer explanation of technical matters see above, §§ 249-255, pp. 52-55.

² Minus for years earlier, plus for years later, than the base-year.

Siddhānta-Sirōmani we must take the details given in Table XVIII C not as given for (120—85) Day 35, but for Day 36, that number of days having elapsed since true Mēsha-samkrānti by the latter authority. For accuracy the difference between the times of true Mēsha-samkrānti by the two authorities must be allowed for.

262. Since the Table-entries are for each twenty-four-hour period from true Mesha-sam-kranti in any year it is necessary to know the number of hours and minutes since sunrise of the occurrence of true Mesha-samkranti in the year in question, and deduct the sun's movement during those hours and minutes, in order to arrive at his true longitude at mean sunrise of the given day. The hours and minutes are given in Table LX below, cols. 13-17. For the sun's movement it will almost always suffice to use Tables XLIX, L, above. See § 243 above, p. 47, where the remarks regarding the Sarya-Siddhānta apply, mutatis mutandis, to the Siddhānta-Sirāmani also. The entries in Table LX, cols. 13-17, may be verified in the following manner.

Take the moment of true Mēsha-saṃkrānti by the Siddhānta-Sirōmaṇi; (i) The longer rule. Take the moment of true Mēsha-saṃkrānti by the Ārya-Siddhānta from Table I of the Indian Calendar, cols. 13 to 17, adding 30° in odd A.D. years, none in even (Hint 20, p. 79, Indian Chronography). Add the śōdhya by that authority—always 2° 3° 3° 30°. This gives the time of mean Mēsha-saṃkrānti. Deduct for every year of the Kaliyuga expired at the given date the amount obtained from Table LIII below. This gives the time of mean Mēsha-saṃkrānti by the Siddhānta-Sirōmani. Deduct the amount of śōdhya noted in Table LIII below for the given year; for great exactness it may be found from col. 3, difference for the given year in minutes and seconds being calculated from the entry for the beginning of the century: for close approximation take, without further calculation, the century entry in col. 4. The result is the required time of true Mēsha-saṃkrānti by the Siddhānta-Širōmani.

- (ii) The shorter rule. Take the Arya-Siddhānta time of true Mēsha-samkrānti—the first process in (i). Add together the amounts gathered from Table LIII—the third process in (i)—and the number of minutes for the century in col. 5 of Table LII. Deduct the total from the Arya-Siddhānta time of true Mēsha-samkrānti. The result gives the required time of true Mēsha-samkrānti by the Siddhānta-Sirōmani with sufficient exactness for ordinary purposes.
- 263. Calculation for the correct tithi-index by the Siddhanta-Śirōmani may for the present be considered as sufficiently carried out by work according to the Ārya-Siddhanta; there will eften be a difference between the two. Correction of the equation (see above, § 247, ii, the tithi) may cause a difference of one unit in the tithi-index, and there may be a slight difference in consequence of a different mean anomaly value requiring the equation to be calculated from a different base-angle.

Construction of the Main-Table XLVIIIC.

264. In order to conform to my similar Tables for the Ārya- and Sārya-Siddhāntas (above, Fables XLVIIIA and B), I have worked for the year K.Y. 4500 expired, A.D. 1399-1400. The first thing was to fix the exact value of the sun's mean anomaly in that year at the moment of true Mēsha-samkrānti.

From Dr. Schram's fixture of the sun's equation of the centre by the Siddhanta-Sirōmani at that moment in K.Y. 4000 as 2° 8′ 52′ 761328955 and in K.Y. 5000 as 2° 8′ 59′ 319753357 we find the equation in K.Y. 4500 to be 2° 8′ 56′ 040541156, or, in 10,000ths of the circle, 59-691670842.

From Prof. Jacobi's determination of the position of the sun's apsis (I take perigee, not apogee) at that moment as 258° 55′ 12′ in K.Y. 4000 and 259° 12′ 36° in K.Y. 5000 we find the perigee-point in K.Y. 4500 to be 259° 3′ 54°, or in 10,000ths of the circle, 7196°250 (exact).

The sun's mean anomaly at any moment is 360° minus the longitude of perigee and the equation of the centre. This, using the above figures, gives us his mean anomaly at that moment in K.Y. 4500 as 98° 47′ 9° 959458844 or, in decimals of a minute for purposes of calculation, 98° 47′ 165990981; or, in 10,000ths of the circle, 2744 058329158.

Tested by the sine-and-equation-Table (above, Tables XLVII and XLVIIA) with use of the most accurate possible details (for method see text § 256, above) I find that the result of calculation from that amount of mean anomaly gives the sun's true longitude as exactly 360° down to four decimals of a second. The figures, then, are accurate for the moment of true Mesha-samkranti in K.Y. 4500.

The sun's mean longitude at any moment is his true longitude less the equation of the centre, here $360^{\circ}-2^{\circ}$ 8' $56^{\circ}\cdot040541156$ or 357° 51'3" 959458814, or, in 10,000ths, 9940-308329158.

These figures are given for the moment of true Mēsha-samkrānti at the head of the main Table.

EXAMPLE.

265. An inscription is found the date of which is stated as "Saka 1571, Virodhin, Margasira krishna 30, Sunday, (nakshatra) Uttara Ashāḍhā, 25 Dhanus."

Worked out by the Tables below for calculation by the Siddhanta-Sirōmani (Tables XLIV A-LX) the date is found to be perfectly sound. The resulting tithi-index (t=98684370 by calculation) proves that the tithi Mārgaš. kr. 30 was properly connected with Sunday, 23 December, A.D. 1649, which corresponded with the year Virodhin, Šaka 1571 expired. That Sunday was the 357th day after January 1st. Work for the solar month and day shews that this Sunday, the 357th day after January 1st, was the 25th day of Dhanus.

But the value of the nakshatra-index, n, found in the course of calculation points to the true moon's place in the heavens at mean sunrise of that Sunday having been so close to the point of junction of two nakshatras that it is advisable to test the essential details as closely as possible.

The true sun's longitude, "s," at mean sunrise of the 357th day after January 1st, is found by the present Table XLVIIIC. The solar year began (Table LX, cols. 13-17) on the 86th day after January 1st at 9^h 32^m after mean sunrise. That was the moment of true Mēsha-sani-krānti. 357-86=271. For the purpose of the Table the Sunday in question was "Day 271" after true Mēsha-sanikrānti.

Table XLVIIIC shews that at 9h 32m after mean sunrise on Day 271 the sun's true long, in ten-thousandths of the circle, was 7365-9104. From this must be deducted the sun's true motion during 9 hours on Day 271 (*Table XLIX above*, p. 107) and 32 minutes (taken for convenience in mean motion by Table I., p. 108), respectively, 10·6500 and 0·5084, total 11·2584, 7365-9104—11·2584=7354-6520. This was the value of "s" at mean sunrise of the given day.

The tithi-index, t, was found to be at the same moment 9868·4370; and since s+t=n, the index of the nakshatra, the value of "n" is found to be 7223·6890. Turning to Table XLVI above it is seen that by the equal-space division of the heavens the true moon was in the nakshatra Pūrva Ashāḍhā, but that by the systems of Garga and the Brahma-Siddhānta she was in Uttara Ashāḍhā, the former beginning at $72 \pm 2 \cdot 2$ and the latter at $7137 \cdot 2106$.

If the framers of an almanae computed it on the principles of the Siddhanta-Sirōmani, an authority of the Brāhma school of astronomy, they would naturally be supposed to follow the Brahma-Siddhanta system of nakshatras. Hence the date is proved to be correct in every particular.

NOTE.

The figures in the following Table are correct for K. Y. 4500, A.D. 1399-1400. In ordinary work for computation of the sun's true longitude (""" in the Indian Calendar system) they may be taken as applicable to all years during which the Siddhanta-Siromani was in use.

But for very great accuracy in other calculations the figures are subject to the following alterations:-

(Gols. 2, 3, 4, 5).—Sun's mean anomaly and mean longitude. For every 100 years earlier than A.D. 1400 add (cols. 2, 4) 1' 45":0558, or (cols. 3, 5) 0'8106. For every 100 years later deduct the same.

(Cols 6, 7).—Sun's equation of the centre. For every 100 years earlier than A.D. 1400 deduct (col. 6) 0.6558, or (col. 7) 0.0051. For every 100 years later add the same.

TABLE XLVIII-C.

ELEMENTS OF THE SUN'S LONGITUDE FOR THE HINDU SOLAR YEAR,

according to the Siddhanta-Siromani.

in periods of 24 hours each from the moment of the true Mesha-samkifinti,

the astronomical beginning of the solar year.

(Exact for K. Y. 4500, A.D. 1399-1400. See Text §§ 260, 264.)

24-bour periods from true Meha-antikranti.	Sun's mes sun's dis	stance from point) ("C").	Sun's mean anomaly (or mean sun's distance from perigee- point) ("C"),		Sun's	mean h	Sun's mean longitude.	Sun'a	equation +	Sun's equation of the centre,	-mn	Sun	("8").	Sun's true longitude ("8").
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	0		10,000the of o'role.	0	4		10,000ths of circle.	0		10,000ths of circle,	.0	*		10,000ths of circle
At true Mesha namhranti .	98 67-70	16590	The sun's equation is 2744-0583 357	357	o plus	3.96 I	+, plus, till his mean anomaly reaches 180°.)	reache.	56.01	59-6917	360	0	0.0	0.0
e= 01 i	100 45-43	46-30220	2771-4362	358 2	49 2	12-13	9995-6862			59-5217	0-		16-14	97-2079
7		7462	2826-1920		793	28-48	124430	011		59-1457	5.54		3-77	81-5877
10		4705	2880-9477	21		44-82	77-1977	10 10	43-70	58-9085	e *	700	28-61	135-8689
100		8326	2908-3256		-	53-00	104-5758	9	13-04	58-4339	No		6-03	163-0005
+ 00	106 40-25568	8929	2963-0813	+ 40	5 4	1-17	131-0535	04.0	37.36	58-1687	00		38.63	190-1121
6 9		6816	2990-4592			17-51	186-7002			67-5563		47 3	6-81	244-2655
		2000	9011-2311			22-09	214-0871	00		57-2552			96-9	271-3423
22	109 37-66431	062	3045-2150	00.0	19 19	33.86	241-4650			56-9006	10		28-17	208-3605
13		673	3000-9707			200	296-2207			56-5355	10		9-04	325-3784
15	112 35-07294	2994	3127-3486			58.38	323-5986	2 0	31-73	26-8004	122	30 3	30-11	379-3990
	3	616	20077-1010			9-09	350-9765	9		1010年の日本	14		0.430	400,0470

TABLE XLVIII-C-Contd.

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S'ddhanta-Siromanl.	Sun's true longitude	a	IC,000ths of circle,	433.2969 460.2468 487.1766 514.0652 540.9548	567-8445 594-7005 621-5308 648-8611 675-1915	701-9738 728-7448 755-5158 782-2688 809-0170	835-7332 862-4495 889-1667 915-8327 942-4988	969-1648 995-8209 1022-4413 1049-0617 1075-6821
S'ddb	's true long		*	7.86 7.86 17.95 27.75	32-64 33-18 30-39 27-60 24-81	15-80 5-33 54-85 44-37 28-60	11-03 53-45 36-00 11-92 47-84	28-38 28-39 58-40 28-40
	ms.	00	1181-	22222	82888	22201	70 50 50 50 FG	25 2 2 2 3
	and a side		0	22122	22322	88188	82222	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Sun's equation of the centro.	4	10,000ths of circle.	54-9426 54-5136 54-0655 53-5772 53-0890	52-6008 52-0789 51-5314 50-9838 50-4362	40.8407 40.2338 48.7280 48.0201 47.3724	46.7108 46.0491 45.3885 44.6766 43.9648	43.2530 42.5311 41.7737 41.0162 40.2588
	the tribun of tribun of the tribun of tribun of the tribun of tr		à	40-56 44-97 46-89 43-61 40-33	37-06 29-43 18-46 7-50 56-54	39-36 20-70 19-46 19-46	27-97 27-97 20-09 57-84	25-59 52-04 13-87 35-70 57-54
	a's eq	0		55 55 55 55 55 55 55 55 55 55 55 55 55	85 2 2 2 8 4	22223	38888	26.28.38
	Z.	19.	0					
TABLE XLVIII-C-Contd.	Sun's mean longitude.	la .	10,000ths of circles	378-3543 405-7322 433-1101 460-4890 487-8658	515-2437 542-6216 569-9995 597-3773 624-7553	652-1331 679-5510 706-888 734-2667 761-6446	789-0225 816-4003 843-7782 871-1561 898-5340	925-9118 953-2897 980-6676 1008-0455 1035-4233
XLVI	mean l		2	14-72 22-89 31-07 47-41	55-59 3-76 11-93 20-10 28-28	36-45 44-62 52-70 0-97 9-14	17-31 25-48 33-66 41-83 50-00	6.35 6.35 14.52 22.60 30.87
BLE	Sun,	*		88888	88288	82228	288128	118119
TAI		081	0	22222	22828	84882	22822	333333
	Sun's mean anomaly (or mean sm's distance from perigoe-point) ('* C'').	n	10,000ths of circle.	3182-1043 3206-4822 3236-8601 3264-2380 3291-6158	3318-9937 3346-3710 3373-7495 3401-1273 3428-5052	3455-8831 3483-2610 3010-6388 3538-0167 3565-3946	3592-7725 3620-1503 3647-5282 3674-9061 3702-2840	3729-6618 3757-0397 3784-4176 3811-7955 3839-1733
	un's meen anomaly (or mean sm's distance from periges- point)	oi	(8)		20-38853 19-52474 18-64095 17-79716	16-06958 15-20579 14-34201 13-47822 12-61443		
	Sun's	14	0	115 115 117 118	58233	22222	130 130 130 130 130 130 130 130 130 130	134 136 137 137
	24-hour periods from true Mecha-sathkranti.	1		16 17 18 10 20	20022	86989	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	38 33 38 40 40 40 40 40 40 40 40 40 40 40 40 40

	1102-2815 1128-8563 1155-4311 1182-0059 1208-5515	1235-0852 1261-0189 1288-1526 1314-6511 1341-1483	1367-6455 1394-1352 1429-5959 1447-0566 1473-5173	1499-9626 1526-3914 1552-8202 1579-2490 1605-6781	1632-0886 1638-4991 1684-9096 1711-2928 1737-6760	1764-0591 1790-4422 1816-8164 1843-1813 1860-5462	1922-2673 1948-6185 1974-9697 2001-3235
1	75-68 19-77 43-87 7-96 28-27	6.581 24.58 38.78 52.82	6-86 19-92 38-53 47-84	55-16 0-33 5-50 10-67 15-88	18-68 21-49 24-29 23-55 22-80	22:30 21:31 10:41 13:10 13:10	10-72 5-84 0-96 51-52
4	88888	128822	21×00	82228	22888	82228	22000
	88288	25878	38238	22222	88828	22322	28511
	39-4803 38-6772 37-8741 37-0710 36-2388	35-3946 34-5504 33-7063 32-8269 31-9462	31-0656 30-1773 29-2602 28-3430 27-4258	26-4033 25-5442 24-5951 23-6460 22-6972	21-7299 20-7625 19-7952 18-8004 17-8057	16-8110 15-8163 14-8126 13-7996 12-7866	11-7786 10-7519 9-7253 8-6986 7-6745
İ	10-64 32-56 48-48 4-40 16-54	27-14 37-74 48-34 54-36 0-23	6-10 10-12 13-25 14-39	13-53 10-53 1-55 1-56	26-19 26-54 27-62 27-62	18-70 9-79 59-71 48-43 37-15	26-51 13-45 0-39 47-34 34-62
	88298	22320	0.000	62223	22358	22222	88223
				00000	00000	00000	00000
	1062-8012 1090-1791 1117-5570 1144-9348 1172-3127	1199-6906 1227-0685 1254-4463 1281-8242 1309-2021	1336-5800 1303-9579 1391-3357 1418-7136 1446-0915	1473-4694 1500-8472 1528-2251 1555-6030 1582-9809	1610-3587 1637-7366 1665-1145 1692-4924 1719-8702	1747-2481 1774-6260 1802-0039 1829-3817 1856-7596	1884-1375 1911-5154 1938-8932 1966-2711 1993-6490
İ	39-04 47-21 56-38 3-56 11-73	19-90 28-07 36-25 44-42 52-59	0.76 8.94 17.11 255.28 33.46	41-63 49-80 67-97 6-15 14-32	28.84 38.84 47.01 55-18	3.35 11.53 19.70 36.05	44-22 52-39 0-56 8-74 16-91
	54555	15001	P-0-0-4-00	01-008	25852	25.52.53	68848
	88323	34484	34323	84888	57 58 59 60 60 61	643 655 665 665	28851
	*3866-5512 3863-9291 3921-3070 3948-6848 3376-0627	4003-4406 4030-8185 4058-1963 4085-5742 4112-9521	4140-3300 4167-7079 4195-0857 4222-4636 4249-8415	4277.2194 4304.5972 4331.9751 4359.3530 4386.7309	4414-1087 4441-4566 4468-8645 4496-2424 4523-6202	4550-9981 4578-3760 4605-7539 4653-1317 4660-5096	4715.2654 4715.2654 4770-0211 4797.3990
	11-75064 10-88685 10-02306 9-15927 8-29548	7-43169 6-56790 6-70412 4-84033 3-97654	3-11275 2-24896 1-38517 0-52138 59-65759	58-79380 57-93001 57-06522 56-20244 55-33865	54-47486 53-61107 52-74728 51-88349 51-01970	50-15591 49-29212 48-42833 47-56454 46-70076	45-83697 44-97318 44-10939 43-24560 42-38181
	25555 5555 5555 5555 5555 5555 5555 55	44444 4444 4444 4444 4444 4444 4444 4444	150 151 152 152	22.25.25.25.25.25.25.25.25.25.25.25.25.2	158 160 161 161 162	163 164 165 167	168 170 171 172
	25523	\$4.448	25.55.25	928 938	28818	968 67 78 88 0	E5525

				T	ABI	EXL	TABLE XLVIII-C-Contd.	7					174	Siddhñ	Siddhanta-Siromani.
hour periods from true Mesha-sachkranti.	Sun's	Sun's mean anomaly (or m sun's distance from perigee- point) ('' C''),	anomaly (or mean of from perigee-		s'ms	mean lo	Sun's mean longitude.	Sum,	equatic	Sun's equation of the centre.	entre.		Sam	Sun's true longitude	mgitude
1	1.15	01	e e		7	181	ia		9	7			:00		. 6
	0		10,000ths of eirole.	0	-	387	10,000ths of circle.	0	2	10,000ths of circle.	oths rels.	0		16	10,000ths of circle.
27.7.8	527 521	41-51802 40-65423 39-79044 38-92665 38-06286	4824.7768 4862.1547 4879-5326 4906-9105 4934-2884	RETER	32332	25.08 23.25 41.43 40.60 57.77	2021-0269 2048-4047 2075-7826 2103-1605 2130-5384	00000	14 20-38 12 6-14 9 51-90 7 37-95 5 23-12		6-6387 6-6029 4-5671 3-5335 2-4932	22222	45888	45-46 39-39 33-32 27-55 20-89	2027-6656 2054-0076 2080-3497 2106-6940 2133-0315
88	871	37-19908 36-33529	4961-6662	1.8	28	5-94	2157-9162 2185-2941	00	3 8-29 0 53-46		1-4528 0-4125	1282	44	14-23	2159-3691
Sun in apogee	180	0-0	0 0000	2.0	92	24.00	2795-8333	0	0-0 0		0-0	2.0	100	24.00	2195-3333
		The nun'	s equation of	the centre in	- 17.0	-, minses,	, after his mean anomaly=180° till it reaches 360°.	рионз	ly=180	till it rea	Ace 360°			Į į	
8 8 8 8 8	82222	35-47150 34-60771 33-74392 32-88013 32-01634	5016 4220 5043-7999 5071-1777 5098-5556 5125-9335	5.82888	88388	22-29 30-46 38-64 46-81 54-98	2212-6720 2240-0499 2267-4277 2294-8056 2322-1840	00000	1 20-88 3 35-71 5 50-54 8 5-37 10 19-23		0-6240 1-6644 2-7048 3-7451 4-7780	58232	888888	141 54.76 48.10 55.65	2212-0480 2238-3855 2264-7220 2291-0605 2317-4055
8888	281 188 188 188	31-15255 30-28876 29-42497 28-56118 27-69740	5153 3114 5180 6892 5208-0671 5235-4470 5262-8229	25258 25258	32332	3-15 11-33 19-50 27-67 35-84	2349-5614 2376-9392 2404-3171 2431-6950 2459-0729	00000	12 33-47 14 47-11 19 14-48 19 27-54	-	5-8138 6-8496 7-8854 8-9081 9-9347	22222	22222	29-69 23-62 17-55 13-19 8-30	2343-7476 2370-0807 2990-4317 2422-7869 2449-1381
97 8 8 9 9	192	26-83361 25-96982 25-10603 24-24224 23-37845	5290-2007 * 5317-5786 5344-9565 5372-3344 5399-7122	88558	28888	62-19 0-36 8-53 16-71	2486-4507 2513-8286 2541-2065 2568-584 2595-9622	00000	23 40-60 25 52-74 28 4-02 30 15-31 32 26-59	i a vinite i e	10-9614 11-9810 12-9940 14-0070 15-0200	88228	F8062	348 56.53 56.53 56.53 56.53 56.53 56.53	2475-4893 2491-8476 2528-2125 2554-5774 2580-9423

	2607-3193 2633-7024 2660-0855 2686-4687 2712-8736	2739-2841 2765-6947 2792-1052 2818-5195 2844-9483	2897-8058 2924-2730 2950-7343 2950-7343	3003-6537 3030-1509 3056-6482 3083-1454 3109-6494	3136-1831 3162-7169 3189-2506 3215-8025 3242-3773	3268-9521 3295-5269 3322-1 332 3348-7536 3375-3740	3401-9944 3428-4574 3455-3235 3481-9885 3508-6642
	48.58 47.00 46.34 48.42	51-22 54-03 56-83 0-13 5-30	10-47 15-63 25-86 35-17 44-48	58-52 7-56 21-60 85-64 50-56	28-58 28-58 28-58 20-58 38-58	56-19 20-28 48-46 18-47 48-47	18-48 54-00 29-92 5-84 42-88
0	28558	888888	22222	550 10 11	22483	38888	222222
	84886	88 001 201	104 105 107	11000 11000 11000 11000	55555	7128 128 128 128 128 128 128 128 128 128	98888
	16-0209 17-0156 18-0103 19-0051 19-9780	20-9454 21-9127 22-8801 23-8436 24-7927	25-7418 26-6909 27-6010 28-5182 29-4353	30-3545 31-2352 32-1158 32-9965 33-8703	34-7145 35-5586 36-4028 37-2288 38-0319	38-8349 39-6380 40-4096 41-1670 41-9245	42-6819 43-3968 44-1086 44-8205 45-5237
9	36-30 45-22 54-14 3-06 9-15	14-52 19-80 25-26 30-13 33-14	36-14 39-14 35-06 34-82	33.95 28.08 22.21 16.35 9-60	59-00 48-40 37-80 8-93 8-93	53-01 37-09 17-08 55-25 33-41	11-58 44-23 16-48 16-48 19-87
	28822	44 47 63 63	357 259	13 10 70	48888	88288	22222
+	00000	00000	000++				
0	2623:3401 2650-7180 2678-0958 2705-4737 2732-8516	2780-2295 2787-6074 2814-9852 2842-3631 2869-7410	2897-1189 2924-4908 2951-8746 2979-2525 3006-6304	3034-0083 3061-3861 3088-7640 3176-1419 3143-5198	3170-8976 3198-2755 3225-0534 3253-0313 3280-4091	3307.7870 3335.1649 3389.5428 3389.9206 3417.2985	3444-6764 3472-0543 3499-4321 3526-8100 3654-1879
	21-88 33-05 40-40 57-57	13.92 22.92 38.43 38.43	46-61 54-78 2-95 11-12 19-30	2747 3544 4381 016 016	8.33 16.51 24.68 32.85 51.02	49-20 57-37 5-54 13-71 21-89	30-06 38-23 46-40 54-58
	22223	82823	12221	22122	0.00 (-0.00	40000-	08825
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	[22-51466 [21-65087 [20-78708 [19-92329 [19-05950	18-19572 17-33193 16-46814 15-60435 14-74056	13-87677 13-01298 12-14919 11-28540 10-42161	9-55782 8-69404 7-83025 6-96646 6-10267	5-23888 4-37509 3-51130 2-64751 1-78372	0-91993 0-05614 59-19236 58-32857 57-46478	56-60099 55-73720 54-87341 54-00962
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Siddhanta-Siromuri.	ngitude).	0	10,000ths of circle.	3535 3562 3562 3588 3615 3615	3669 3095 3722 3740 3776	3858 3858 3858 3858 3888	3987 3987 4014 4014	4097 4187 4188
Siddh	Sun's true longitude (** 8 **).		4	25-31 7-73 50-10 35-47 25-00	14-52 4-04 58-48 55-69 52-90	56-11 56-72 56-72 6-51	17-78 30-36 42-95 16-14 17-01	37.87 58.73 22.21 51.36 20.50
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	Sun's equation of the centre.	7	10,000ths of circle.	46-1853 46-8469 47-5086 48-1479 48-7548	49.3616 49.9685 50.5374 51.0850 61.6325	52-1801 52-6029 53-1811 53-6694 54-1576	54-5967 55-0256 55-4545 55-8158 56-2438	56-6088 56-9730 57-3187 57-6199 57-9211
	nation of	Me	1	45-61 11-36 37-11 59-97 18-62	37.27 55.92 9.65 31.58	42-54 49-00 52-57 55-55 58-83	55-53 46-91 26-92 26-93 26-93	16-51 48-51 27-54 6-57
	ba s	9	*	84383	22222	22222	10 0 0 0 1	31 22 22 473
	Sun		0					01 01 01 01 01
	ngitude.	5	10,000ths of circle.	3581-5658 3608-9436 3636-3215 3603-6994 3691-0773	3718-4561 3746-8330 3773-2109 3800-5888 3827-9666	3855-3445 3882-7224 3910-1003 3937-4781 3964-8560	3999-2339 4019-6118 4046-9896 4074-3675 4101-7454	4129-1233 4156-5011 4183-8790 4211-2569 4238-6348
	Sun's mean longitude.		*	10-92 10-10 10-10 13-44 13-01	59-96 59-96 8-13 16-30 24-48	32-65 40-82 48-99 67-17 5-34	13-51 21-69 29-86 38-03 46-20	54.38 2.55 10-72 18-89 27-07
	Sun,	-		55 25 55	25553	####	33±88	33873838
			D	33853	32322	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	145 145 145 145 145 145	148 150 151 152
	anomaly (or mean periges-	80	10,000ths of circle.	6385-3158 6412-6936 6440-0715 6467-4494 6494-8273	6522-2051 6576-9609 6004-338S 6631-7166	6659-0945 6686-4724 6713-8503 6741-2281 6748-6060	6795-9839 6823-3618 6850-7396 6878-1175 6905-4954	6932-8733 6960-2511 6987-6290 7015-0069 7042-3848
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	4207-7904 4234-9028 4263-0434 4289-1840 4316-3246	4343-5195 4370-7286 4397-9376 4425-1467 4452-4090	4479-6865 4506-9640 4534-2429 4561-5889 4588-9348	4616-2807 4643-6434 4671-0532 4608-4630 4725-8728	4753-3170 4780-7953 4808-2736 4835-7518 4835-2810	4890-8277 4915-9212 4973-5354 5001-1505	5028-7057 5036-3786 5084-0577 5111-7367 5139-4157
	49-64 23-40 0-83 38-25 15-67	0-13 46-42 19-01 12-21	2-53 57-88 5-88 5-95	9-98 16-18 28-49 40-81 53-12	9.89 52.25 13.43 1.22	11-28 41-33 11-38 50-19 29-11	8-03 11-08 8-28
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	35-24 43-41 51-58 59-76 7-93	16-10 24-27 32-45 40-62 48-79	56-97 5-14 13-31 21-48 29-66	37-83 46-00 54-17 2-35 10-52	18-69 26-86 35-04 43-21 51-38	59-56 7-73 15-90 24-07 32-25	942 859 859 854 13-11
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	254 255 257 257 258	250 260 261 262 263 263	264 265 265 267 268	269 270 272 273	272 273 275 275 278	280 281 282 283 283	285 285 285 288 288 288
	159 160 161 161 162	164 164 165 166 167	120 0 120	271 271 271 271	178 180 181 182	1882 188	188 189 190 192

TABLE XLVIII-C-Contd.

24 hour periods from true Měsha-samkrenti.	92	Sun's mean anomaly sun's distance from point) ('' C'').	nomaly (or mean perigoe-		Sun's	menn 1	San's mean longitude,	Sm	0,8,0	lantion c	Sun's equation of the centre		Sun't	("8").	Sun's true longitude,
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	21-96 2-39 46-31 32-64 18-98	5.53 56.58 48.84 41.09 33.77	31.35 28.92 26.50 27.97	30-27 32-58 37-68 44-66 51-70	58-74 9-30 20-48 31-65 42-83	54-84 8-38 21-92 35-46 53-87	10-98 28-05 44-81 23-72
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	23-63 51-38 15-64 37-47 59-31	21-14 38-05 53-97 9-89 25-38	35-98 46-58 57-17 6-18 12-05	17.91 28.04 29.18 29.18	20.32 24.92 21.92 18.91	15-08 9-71 4-34 58-97 48-74	39-82 36-92 11-63 59-17
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1	45-60 53-77 1-94 16-12 18-29	28-46 34-63 42-81 50-98 50-15	7.32 15.50 23.67 31.84 40.02	48-19 56-36 4-63 12-71 20-88	29 05 37.52 45.40 53.57 1.74	9-91 18-09 26-26 34-43 42-61	56-78 58-95 7-12 15-30 23-47
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	38-85997 37-99618 37-13239 36-26860 35-40482	34-54103 33-67724 32-81345 31-94966 31-08587	30-22208 20-35829 28-49450 27-63071 26-76692	25-090314 25-09035 34-17550 23-31177 22-44798	21-58419 20-72040 19-85661 18-99282 18-12903	17-26524 16-40146 15-53767 14-67388 13-81009	12-04630 12-08231 11-21872 10-35493 9-49114
	313 314 315 310 317	318 319 320 321 321	325 325 325 327 327	320 330 331 331	333 335 335 337	338 340 341 341 341	343
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Siddhanta-Stromani.	ngitude ").	6	10,000ths of circle.	6854-4998 6882-8008 6911-2953 6939-6999 6968-1044	6996-5097 7024-9234 7053-3371 7081-7508 71110-1639	7138-5821 7167-0004 7195-4186	7195-8333		7223-8330 7252-2512 7280-0694 7309-0831 7337-4907	7365-9104 7394-3241 7422-7304 7451-1349 7479-5395
Siddhi	Sun's true longitude (** 8 **).	14		48-17 2-64 28-87 45-10 6-33	26-66 50-07 12-49 34-90 57-24	20-24 43-25 6-25	24-00	167	38-75 51-76 14-76 37-16 59-58	21-99 44-40 5-86 27-09 48-32
	Sm.*	00	-	34382	52 55 55 55	800	00		20401-0	22222
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	Sun's equation of the centre.	Į+.	10,000ths of circle.	124110 11.3879 10.3713 9.3446 8.3179	7-2904 6-2547 5-2189 4-1831 3-1478	2-1074 1-0671 0-0267	0.0	Sun's equation of the centre.	1-0008 2-0501 3-0905 4-1262 5-1620	0-1078 7-2336 8-2621 9-2887 10-3154
	pration c		(8)	48-47 37-17 24-11 11-06 58-00	44-84 30-60 16-36 2-12 47-95	33-12 18-29 3-46	0.0	it reache	16-87 25-70 40-53 54-76 9-00	23-24 37-48 50-76 3-82 16-88
	n'n eq	8		523187	22200	4010	0	1197 °	014087	88122
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TABLE ALVIII-C-COMM.	ngitude,	9	10,000ths of circle.	6866-9108 6894-2887 6921-6666 6949-0444 6976-4223	7003-8002 7031-1781 7058-5559 7085-9338 7113-3117	7140-6896 7168-0674 7195-4453	7195-8333	+, plus, after his mean anomaly=360°, till it reaches 180°). Sun's equation of the ce	7222-8232 7250-2011 7277-5789 7304-9568 7332-2347	7359-7126 7387-0904 7414-4083 7441-8462 7469-2241
E ALVI	Sun's mean longitude			31-64 39-81 47-99 56-16 4-33	12-50 20-68 28-85 37-62 45-20	53.37 1-54 1-74	00-99	ofter his n	24.23 24.23 24.23 26.55 26.55 26.55	58-75 6-92 15-09 23-27
TOV	Sun	7	ì	21200	20 to 20 4	0000	20	plus,	528 50 0 1	33525
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	un's mean anomaly (or mean sun's distance from perigoe- point) ('' C'').	60	10,000ths of circle.	9670-6608 9698-0387 9725-4166 9752-7944 9780-1723	9807-5502 9834-9281 9862-3059 9889-6838 9917-0617	9944-4396 9971-8174 9999-1953	10000-0	n of the centre is	26-5732 53-9511 81-3289 108-7068 136-0847	163-4626 190-8404 218-2183 245-5962 272-9741
1	Sun's mean anomaly sun's distance from point) ('c' C'').	e1		8-62735 7-76356 6-89978 6-03599 5-17220	4-30841 3-44462 2-58083 1-71704 0-85325	59-98946 59-12567 58-26188	0-0	nun's equation	55-53431 56-53431 55-67052 54-80673 53-94294	53-07915 52-21536 51-35157 50-48778 49-62399
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1	9-54 48-96 8-11 27-57	44-58 1-67 18-76 35-85 48-80	2.34 15.88 30.42 41.60 52.77	3-96 12-68 19-71 26-75 33-78	20 44 44 44 44 44 44 44 44 44 44 44 44 44	43.40 41.06 31.80 24.14	8.28 8.28 54.62 40.96 27.29
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	11-3421 12-3566 13-3696 14-3826 15-3956	16-3897 17-3844 18-3792 19-3739 20-3367	21-3040 22-2714 23-2464 24-1055 25-1439	26-0937 27-0239 27-9411 28-8582 29-7764	30-6811 31-5617 32-4424 33-3230 34-1833	35.0275 35.8716 36.7158 37.5265 38.3296	39-1327 39-9330 40-6904 41-4479 42-2053
	29-93 41-42 52-70 3-98 15-27	24.15 26.43	1.00 6.37 15.74 18.75	21.23 20.23 20.03 18.89	16-26 10-40 4-53 58-86 50-16	39-56 28-96 18-37 3-44 47-52	31-60 15-31 31-65 9-81
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	48-76020 47-89642 47-03263 46-16884 46-30505	44-44126 43-57747 42-71368 41-84989 40-98610	40-12231 39-25852 38-39474 37-53095 36-66716	35-80337 34-93958 34-07579 33-21200 32-34821	31-48442 30-62063 20-75684 28-89306 28-02927	27-16548 26-30109 25-43790 24-57411 23-71032	22-84653 21-98274 21-11895 20-25516 19-39138
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Siddhauta-Siroma ui.	e longitude	9	10,000ths of circle.	8497 7765 8525-8662 8573-6559 8582 6456 8610-1081	8638-1476 8666-1871 8694-2266 8722-2235 8750-2082	8778-1930 8806-1778 8834-1025 8862-0280 8889-9534	8917-8814 8945-7475 8973-6136 9001-4797 9029-3340	9057-1408 9084-9476 9112-7544 9140-5528 9168-2757
Siddhāuta	Sun's true longitude (" 8").	90		25 25 25 25 25 25 25 25 25 25 25 25 25 2	58 23.93 58 57.85 69 31.77 0 0-17 0 20.99	0 53.81 20.64 1 39.69 1 58.82 2 17.96	33.48 48.88 0.82 0.82 11.77	3 25-45 3 29-21 3 32-97 3 33-05 2 28-54
	THE REAL	Allo	0	305 306 307 308 309	312 1	316 310 320	324 332	326 327 328 329 330
	(the centre.	7	10,000ths of circle.	42.9489 43.6008 44.8726 45.0844 15.7690	46.4306 47.0922 47.7539 48.3729 48.9798	49-5867 50-1935 50-7404 51-2880 51-8356	52-3857 52-8730 53-8621 53-8504 54-3268	54.7557 55-1347 55-6130 56-0141 56-3791
	Sun's equation of the centre.	9		32 4618 34 1843 35 50 69 37 22 94 38 51 66	40 1741 41 43·16 43 8·90 44 29·13 45 47·78	47 643 48 25-08 49 35-96 50 46-92 51 57-89	53 918 54 1246 55 1573 56 1901 57 2076	58 1634 59 11-93 0 59-43 1 46-74
	Smn,	- 8	0					
	ongitude.	20	10,000ths of circle.	8454-8276 8482-2055 8509-5833 8536-612 8564-3391	8591-7170 8619-0948 8646-4727 8673-8500 8701-2286	8728-6063 8755-9842 8783-3621 8810-7400 8838-1178	8865-4957 8892-8736 8920-2515 8947-6293 8975-0072	9002-3851 9029-7630 9057-1408 9084-5187 9111-8966
	Sun's mean longitude	H	187	25.60 33.83 42.00 50.17 58.33	89.25 89.25 89.25 89.25	47-38 55-55 3-73 11-90 20-07	28-25 36-42 52-76 0-94	9-11 17-28 25-45 33-63 41-80
	Sun'	*		812822	Z222Z	22212	00100	10 4 to 01
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	anomaly (or mean nee from perigee- point)	80	10,000ths of eirele.	1258-5770 1285-9055 1313-3333 1340-7112 1368-0891	1395 4870 1422 8448 1450 2227 1477-6006 1504-9785	1532-3563 1559-7342 1587-1121 1614-4900 1641-8678	1669-2457 1696-6236 1724-0015 1751-3793 1778-7572	1806-1351 1833-5130 1880-8908 1888-2687 1915-6466
	Sun's mean anomaly sun's distance from point)	O1		18-52759 17-06380 16-80601 15-93622 15-07243	14.20864 13.34485 12.48106 11.61727 10.75349	0.89970 9-02591 8-16212 7-29823 6-43454	5-57075 4-70696 3-84317 2-97938 2-11559	1-25181 0-38802 59-52423 58-66044 67-79665
	Sun' sun	TE	0	28238	22222	20 20 20 20 20 20 20 20 20 20 20 20 20 2	64 63 64	88888
	24-hour periods from true Mesha-samkranti.	-	ATP.	3113 313 314 314	316 317 318 318 319	388 388 388 388 388 388	388 388 388 389	333
1	24.hc		15					

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	9196-0187 9223-7616 9251-4606 9279-1397 9306-8187	9334-4977 9382-1174 9389-7326 9417-3477 9444-9516	9472-4983 9500-0450 9527-5917 9565-1282 9582-0065	9610-0847 9637-5630 9665-0144 9692-4242 9719-8341	9747-2439 9774-6133 9801-9592 8829-3051 9856-6511	9883-9373 9911-2148 9938-4922 9965-7618 9992-9709
İ	24-02 19-50 19-50 56-50 43-70	30-90 10-42 49-34 5-73	35.78 5.84 35.89 4.62 25.80	8-16 25-87 38-18 50-49	2.81 13.91 17.95 21.98	18-27 13-43 8-59 47-03
	00 00 00 01 01	01 01	000000	25555	28828	88584
1	22 22 22 22 22 22 22 22 22 22 22 22 22	336 337 339 340	######################################	345 345 348 348 348	354 352 354	355 356 357 359 359
	56-7442 57-1002 57-4304 57-7316 58-0327	58-3339 58-5757 58-8130 59-0502 59-2763	59-4451 59-6139 59-9414 60-0417	60-1421 60-2425 60-3161 60-3800 60-3800	60-4119 60-4034 60-3715 60-3395 60-3076	60-2159 60-1155 60-0151 59-0069 59-7380
1	21.36 21.36 42.01 21.04	25.00 31.41 32.91 2.21 2.21	1585 1468 1468 1468 1468 1468 1468 1468 1468	54-42 16-96 21-10 25-24	29.38 28.28 24.14 20-01 15-87	3.98 37.96 23.93 2.05
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i	49-97 58-14 6-32 14-49 22-66	30-83 39-01 47-18 55-35 3-53	11-70 19-87 36-22 41-39	52.06 0-73 8-91 17.08 25.25	33-42 41-60 49-77 57-94 6-12	14.29 22.46 30.63 38.81 46.98
	0.00 0.00	28228	52554	22884	23133	88488
	332 333	334 334 336 337	333 340 341 341 342	345 343	348 351 351 351	353 354 356 356 357
	1943-0245 1970-4023 1997-7802 2025-1581 2052-5360	2079-9138 2107-2917 2134-6696 2162-0475 2189-4254	2216-8032 2244-1811 2271-5550 2298-8369 2326-3147	2353-0026 2381-0705 2408-4484 2435-8262 2463-2041	2480-5820 2517-9589 2545-3377 2572-7156 2600-0835	2627-4714 2654-8492 2682-2271 2709-6650 2736-9829
	56-93286 56-06907 56-20528 54-34149 53-47770	52-61391 51-75013 50-88634 50-02255 40-15876	48-29497 47-43118 46-56739 45-70360 44-83981	43-97602 43-11223 42-24845 41-38466 40-52087	39-65708 38-79329 37-92950 37-06571 36-20192	35-33813 34-47434 33-61055 32-74677 31-88298
	35228	122 22 22 22 22 22 22 22 22 22 22 22 22	88888	88888	88288	23822
İ	336 339 340 340	345 342 345 345 345 345 345 345 345 345 345 345	346 348 348 350	352 352 354 355	355 357 359 360	3653

TABLE LL.

THE CHANGE IN THE VALUE OF THE SUN'S MEAN ANOMALLY PROM THE VALUE GIVEN IN TABLE XLVIII-C, cols. 2, 3, for the base-year of that Table.

caused by the annual shift of the apsis of the sun's orbit postulated by the Siddhanta-Śirōmani.

[Add for years earlier, deduct for years later, than K. Y. 4500, A. D. 1399-1400.]

	CHANGE,			CHANGE.		111	CHANGE.	4,-1
Years.	Minutes and seconds.	10,000ths of circle.	Years.	Minutes and seconds.	10,000ths of circle.	Years.	Minutes and seconds.	10,000ths of circle.
i	0'-0174, or 1"-044	0-00805	10	0'-174, or 10"-44	0-0805	100	1'-74, or 1' 44"-4	0-805
2	0'-0348, or 2"-088	0-0161	20	0':348, or 20":88	0-161	200	3'48, or 3' 28'-8	1-61
3	0'-0522, or 3"-132	0-02416	30	0'-522, or 31"-32	0-2416	300	5'-22, or 5' 13"-2	2-416
4	0'-0696, or 4"-176	0-032	40	0'-696, or 41"-76	0.32			
5	0'-0870, or 5"-220	.0-04027	50	0'-870, or 52"-20	0.4027			
6	0'-1044, or 6"-264	0.0483	60	1'-044, or 1' 2'-64	0.483			10 - 11
7	0'-1218, or 7"-308	0-05638	70	1'218, or 1' 13'-08	0-5638	H		
8	0'-1392, or 8"-352	0-061	80	1'-392, or 1' 23'-52	0-64			
9	0'-1566, or 9"-396	0-07249	90	1'-566, or 1' 33'-96	0-7249			

TABLE LII.

Value of sõdhya, or time-difference between the moments of "true Mesha-samkbānti" (true sun at O°) and "mean Mesha-samkbānti" (mean sun at O°) by the Siddhānta-Śirōmaṇi,

as fixed by Dr. Schram for seven centuries. And Table of difference between that authority and the First Ārya-Siddhānta.

In the year K. Y. expired.	In A.D.	Exa	ict v	alue o	A tõdhya.	Value to lation by		i in calcu- ager rule.	Diff. between Arya Siddh. and Siddh. Sirömani values of tödhya; for use by the shorter rule.
)	2			3			4		5
		d.	h,	m.	. 6.	d.	h.	m.	Minutes
4200	1099-1100	2	4	18	49-0	2	4	19	46
4300	1199-1200	2	4	19	4-975	2	4	19	47
4400	1299-1300	2	4	19	20-95	2	4	19	47
4500	1399-1400	2	4	19	36-925	2	4	20	47
4600	1499-1500	2	4	10	52.9	2	4	20	47
4700	1599-1600	2	4	20	8-875	2	4	20	48
4800	1699-1700	2	4	20	24-85	2	4	20	68
4900	1799-1800	2	4	20	40-825	2	4	20	48
5000	1899-1900	. 2	4	20	56-800	2	4	21	48

The sodhya increases annually in amount by about 0s. 16. actually Cs. 18975.

TABLE LIII.

Difference between the moments of mean Mesha-sameranti as calculated by (i) The First Arya-Siddhanta, (ii) The Siddhanta-Sibōmani,

the two having been together at K. Y. 0 or B.C. 3102.

[The moment of mean Mēsha-sainkranti by the Ārya-Siddhānta having been found, deduct from this the time-difference for the Kaliyuga year of the given date. Result is moment of mean Mē-sha-samkrānti by the Siddhānta Śirōmani.]

Diff. in years.		ime eren	ce.	Diff, in years.	Time Difference.		Diff. in years.	Time Difference.			Diff. in years.		Time Difference.		
1		2		1		2		1		2		1		2	
	h.	m.	и.		h.	111.	d.		h.	994.	0.		h.	m,	8.
1	0	0	21	10	0	3	30	100	0	35	0	1000	5.	50	0
2	0	0	42	20	- 0	7	0	200	1	10	0	2000	11	40	0
3	0	1	3	30	0	10	30	300	1	45	0	3000	17	30	0
4:	0	1	24	40	0	14	0	400	2	20	0	4000	23	20	0
5	0	1	45	50	0	17	30	500	- 2	55	0				
6	0	2	6.	60	0	21	0	600	3	30	0				
7	0	2	27	70	0	24	30	700	4	5	0				
8	0	2	48	80	0	28	0	800	4	40	0				
9	1 0	3	9	90	0	31	30	900	5	15	0				

THE SIDDHANTA-SIROMANI.

GENERAL TABLES FOR CALCULATION BY THE TRUE OR APPARENT MOTION OF SUN AND MOON.

(Previously published in Epigraphia Indica, Vol. XV, pp. 159 to 245.)

267. The present article deals with the exact calculation of dates by the Siddhānta-Śirō-maṇi, which is believed to have been largely followed in some parts of India from the 12th century A.D. It provides complete Tables for the settlement of all the elements of the date, the solar month and day, the luni-solar month and tithi, the intercalated or suppressed month, and so on. They are framed on the a, b, c system of Largeteau and Jacobi, and follow the general lines of the Indian Calendar.

268. Since the name given to the whole year sometimes differs from that assigned by the Arya- and Sürya-Siddhāntas (see above, Table XLII, cols. 10, 11) and since the day of the solar month always differs, while the tithi, the intercalated lunar month, and nakshatra very often differ, the necessity for these Tables will be apparent.

To give an example. Professor L. D. Barnett has called attention to a record found in the village of Hulgūr, Bankāpur Taluq, Dhārwār District, Bombay, which is dated in the year Ananda (A.D. 1254-55), Monday, Phālguna full-moon day, the day of a samkrānti. Worked by the Sūrya-Siddhānta, the date is found to be irregular, inasmuch as the samkrānti occurred not on the Monday in question (22 Feb. 1255), but at 8^h 52^m after mean sunrise on Tuesday, 23 Feb. But it is perfectly correct by the Siddhānta-Širōmani, according to which the moment of the samkrānti was 6^h 10^m after mean sunrise on the Monday. The document, therefore, if otherwise acceptable, should be given full historical weight.

269. Before we proceed a word of caution is necessary. While I hope that use of the Tables will yield exactly correct scientific results according to the requirements of the Siddhānta-Sirōmani, we have at present no knowledge of how closely or how loosely the mediaval framers of local pañchāngs, (almanacs) followed the rules. If they only used whole numbers and disregarded fractions, which is probably the case, epigraphists must be prepared for occasional differences in close cases. If, again, they calculated time only in ghatikās and palas, it must not be forgotten that the pala is a division of 24 seconds, while my Tables give results down to a fraction of a second. This affords rather a wide margin for possible differences. The moral is that dates with slight differences should not be hastily rejected. Each should be treated on its merits and reasonable allowance made. Notes of close cases in the matter of intercalated and suppressed lunar months will be found inserted before Table LX. Differences in tithis must be examined, each on its merits.

270. It may at first sight seem absurd to work so closely as to state the value of "a," "b," "c" in nine decimals of a second, as I have done in the heading of Table LIVB; but let it be remembered that this value may be worked up into years and centuries for purposes of Tables LV11A, B. In the body of the Tables four decimal places are given for all values.

For general verification of dates the whole numbers should first be used, as in the Indian Calendar, decimals being resorted to only in close cases,

I give full explanation of all my processes and calculations, so that these may be clear to experts, and that they may be corrected if in error.

In the whole period of 800 years comprised in Table LX it will be found that out of a total of 304 years in which intercalations and suppressions of lunar months occurred there are differences between the Sirya-Siddhanta and the Sid lhānta-Sirōmani in 234 years. The difference also of a whole day in every solar year implies a corresponding difference in the sun's longitude and leads to constant differences in the sukshatru.

ELEMENTS OF THE SIDDHANTA-SIROMANI.

271. The Siddhānta-Širāmaņi is believed to have been composed by Bhāskarāchārya in A.D. 1150, when he was 36 years of age. The late Dr. James Burgess[†] states that the date is "supported by the evidence of an inscription near Chalisgām." Dr. Bhau Daji placed its appearance in A.D. 1105.²

The late Sankara Balkrishna Dikshit pronounced³ that the Rājamrigānka, a work composed in A.D. 1042, was the same as the Siddhānta-Śirōmani in the matter of the calculation of an almanae, and if so, all the Tables which follow would apply to the former as well as to the latter. But up to the present I have no certainty about this. If my information is correct, the length of the solar year according to the two authorities differs; though in some other respects they may well be similar. For the Rājamrigānka, while following the Brahma-Siddhānta of Brahmagupta (A.D. 628), introduced changes in it, which changes were adopted in the Siddhānta-Śirōmani. Only one complete copy of the Rājamrigānka has come to light. This is in the Deccan College Library at Poona, which also possesses a fragment consisting of two chapters. Professor N. K. Majumdar of the Calcutta University, who has kindly made enquiries for me, writes that, although there seems to be frequent reference to a table of sines, such a Table is not to be found in either, of the copies. It seems therefore somewhat premature to assert that Tables adapted for computation by the Siddhānta-Śirōmani will apply in all respects to work by the Rājamrigānka.

272. According to the Siddhanta-Śiromani the length of the mean solar sidereal year, on the basis of 1,577,916,450 civil days to a yuga of 4,320,000 years, is 365-2584375 days or 3654 6h 12m 9*, a quantity less than that of the Ārya-Siddhanta by 21*.

The sines of the 24 base angles of anomaly have the same value as in the Ārya- and Sārya-Siddhāntas, with sin. 90°, or radius. = 3438′. [See Table XLVII above for these sines and equations of sun's centre. For the moon see Table LIX below.]

For the sun's mean motions per day, hour, etc., see Table XLIV above, and footnote to it. The epicycles of sun and moon are not contracted at any point. That of the sun has a circumference of 13° 40′; that of the moon 31° 36′ (Jacobi, above, Vol. I, p. 441). The sun and moon are always treated as planets.

The line of apsides of the sun's orbit has a constant slight forward shift, the movement amounting to 0'0174 or 1"044 per annum. In the total period of 800 years embraced by my Table LX this shift amounts to 13' 55"-2.

The greatest equation of the sun (i.e. eqn. 90°) is 2° 10′ 31′, or in ten-thousandths of circle 6'424382715. That of the moon is 5° 2′ 7'3661 or 139.871652005. The two together=200 296034720.

The epoch of the Kaliyaga was the moment of mean sunrise, or 6 A.M. Lanka time, on Friday 18 Feb. B.C. 3102, a moment which for purposes of computation is treated as K.Y. 0 expired, 0° 0° 0°. This was the moment of occurrence of mean Mesha-samkranti in that year, when mean moon, mean sun and mean Jupiter were all considered to be in exact conjunction at the 0° point of celestial longitude. True Mesha-samkranti in that year, i.e. the moment when the true sun touched that point, occurred on Tuesday 15 Feb. at 19^h 52^m 21½ after mean sunrise.

We have given the term "sodhya" to the interval in time between true and mean Meshamankranti. In K.Y. 0 expired this was 24 4h 7m 38*50, or 2d-171971 (Indian Chronography, Table, p. 16; Dr. Schram's valuation). For later centuries see Table B in § 273 below, p. 133.

¹ J. R. A. S., Oct. 1893, p. 751, § 31,

² J. R. A. S., n. s., I. 392.

Indian Calendar, p. 8.

The position of the moon's apsis at K.Y. 0 was 305° 29′ 46″. Mean moon being at 0°, her mean anom, at that moment was (360°-305° 29′ 46″=) 54° 30′ 14″ (Jacobi, above, I, 442).

The position of the sun's apsis, perigee-point, at that moment was 257° 45′ 36″, and his mean anom. was (360°-257° 45′ 36″=) 102° 14′ 24″ (Jacobi, above, I, 442). For later centuries see Table XLIVA above.

EFFECTS OF THESE ELEMENTS.

- 273. (i) Length of the mean solar year. Since, as above stated, the Siddhānta-Śirōmani year is less by 21° than the Ārya-Siddhānta year, and since this divergence is annual and began in B.C. 3102 at the epoch of the Kaliyuga, when the two were together, it had, by the year A.D. 1100 when my Table LX begins, increased to more than 24 hours. Hence the moments of both mean and true Mēsha-sainkrānti according to the Siddhānta-Śirōmani are always a day earlier than they are by the Ārya-Siddhānta, the times of the occurrence of which are given in Table I of the Indian Calendar and Table LXI below. (See also Table LIII above.) The moment of true Mēsha-sainkrānti each year can be calculated from Table LIII and Table B below, but it is not necessary to do so, unless to check my fixtures as all details are given in Table LX below.
- (ii) The Table given in Indian Chronography, p. 27, for calculating the \$\sigma dhya\$ at different dates, during the period covered by Table LX below according to the \$Siddhanta-Siromani, is here reproduced to save reference.

TABLE B.

VALUE OF SÖDHYA BY THE SIDDHĀNTA-ŠIRŌMAŅI.

Dr. Schram's fixtures.

In K.Y. year expired.	In A.D.	Exact value of södhya,	Difference between Siddh Širō: and Ārya-Siddh: value of sōdhya. For work by shorter rule.
1	2	5	4
4200 4300 4400 4500 4600 4700 4800 4900 5000	1099-1100 1199-1200 1299-1300 1399-1400 1499-1500 1599-1600 1699-1700 1799-1800 1899-1900	d. h. m. s. 2 4 18 49-000 2 4 19 4-975 2 4 19 36-950 2 4 19 36-925 2 4 19 36-925 2 4 19 52-900 2 4 20 8-875 2 4 20 24-850 2 4 20 40-825 2 4 20 56-800	m. 4. 19000 46 34975 46 50950 47 6925 47 22900 47 38875 47 54850 48 10825 48 26800

Longer rule. Take time of true Mēsha-samkrānti by the Ārya-Siddhānta from Table I, Indian Calendar, or Table LXI below, adding 30° in odd A.D. years (Indian Chronography, Hint 20, p. 79). Add Ārya-Siddhānta födhya (constant) 2° 3° 32° 30°. This gives mean Mēsha samkrānti by Ārya-Siddhānta. Deduct time-difference (Table A, above) for interval of years from K.Y. 0, and so find mean Mēsha-samkrānti by Siddhānta-Širōmani. Deduct Siddhānta-Širōmani födhya (Table B, col. 3). This gives the required true Mēsha-samkrānti time by Siddhānta-Širōmani.

Work approximately, if this is considered sufficient, by whole minutes, ignoring seconds and decimals.

Shorter rule. Take time of true Mesha-samkranti by the Arya-Siddhasta as above. From this deduct the sum of the amounts for time-difference for interval of years (Table LIII above) and the difference given in col. 4, Tal * B.

For examples of work see Indian Ch onography, p. 27, § 62 H, where the system is shean approximately in whole minutes. It can be extended into sconds and decimals, if necessary.

(iii) The shift of the sun's apsis. The constant forward shift of the sun's apsis slightly affects the moment in each year when the true sun reaches 0°, the moment of true Meshasamkranti; and creates a small change in the lengths of the true solar months owing to the change in the times of his reaching the points of the signs, and in their collective duration as measured from 0°. The sun is always regarded as a planet in Hindu astronomy, and his orbit is geocentric. His velocity is, in each year, in consequence of the shift of apsis a little greater than in the year previous in some parts of his orbit and a little less in others. For the purpose of correct calculation in very close cases these differences are detailed in Table LVIII-D below; but as they are very slight, they may in ordinary cases be ignored. And let it be always borne in mind that, as yet, we do not know how far the local almanac-makers of mediæval times paid any attention to them.

As regards the time of the true sun reaching long. 0°, since his velocity is greatest at the perigee-point and since this point is annually moving forward, he reaches long. 0° every year a trifle earlier than in the year before. The change is 0°15975 per annum. And for the same reason every year his mean anomaly at that point grows slightly less and the equation of the centre slightly greater. The change in the equation amounts to 0°65584 or, in 1,000ths of circle, 0.0005058 per century.

The shift of the apsis being 1".044 per annum, it amounts to 1' 44".4 in a century, or, calculated in 1,000ths of the circle, to 0.0805. The sun's mean anom, at true Mesha-samkrānti therefore decreases every century by this amount, and every year in proportion.

The Siddhanta-Śirōmaņi length of year is 365^d 6^h 12^m 9^s, and therefore the length of the year as measured between two consecutive true Mēsha-sainkrāntis is this amount less 0^s·15975, or is 365^d 6^h 12^m 8^s·84025. On this basis, which agrees exactly with Dr. Schram's determination of the value of the śōdhya in different millenniums (Indian Chronography, p. 16), the moments of true Mēsha-sainkrānti given in Table LX below have been computed.

(iv) Note on work for the nakshatra. The constant given in the Indian Calendar (pp. 65, 97). in the formula for verifying the nakshatra-index, is 7207. It is made up of the long, of the sun's perigee plus the amount of the sun's greatest equation. The amount 7207 represents the Sarya-Siddhānta value, which varies from 7206:5077 in A.D. 900 to 7207:4035 in A.D. 1950.

The Arya-Siddhanta value is a constant, and is always 7226 3542, roughly 7226.

By the Siddhanta-Sirōmani, owing to its greater increase in the shift of the sun's apsis year by year, the variation in this factor is more pronounced. The long, of the apsis in A.D. 900 was 258° 55′ 12″, or, in 10,000ths of circle, 7192.2, and in A.D. 1900 it was 259° 12′ 36″ or 7200.27. The difference in 100 years is 0.805, in circle measurement, or in 1,000 years 8.05.

The greatest equation of the sun's centre (§ 272 above) is, in circle notation, 60:4244,—the same as by the Sūrya-Siddhānta. The factor therefore in the formula referred to for finding the nakshatra-index is, for the beginning of the K.Y. year 4000, (7192-2+60:4244=) 7252-6466. And for later centries is as shown in the following Table:—

K.Y. cent.	A.D. cent.	Exact factor.	Roughly
4000 .	900 .	7252-6466	7253
4100	1000	7253-4522	PROFES
4200 .	1100 .	7254-2577	7254
4300 .	1200 .	7255-0633	Section 1
4400 .	1300	7255-8688	more
4500	1400 .	7256-6744	2002
4600 .	1500 .	7257-4799	rote
4700 .	1600 .	7258-2855	trate
4800 .	1700 .	7259-0910	Propo
4900	1800	7950-9065	maso
5000 .	1900	7260-7023	POOR

In very close work intermediate quantities must be taken for intermediate years. See Table LI above, which gives the quantities for the change in the sun's mean anom. The same figures can be applied to this factor.

CONSTRUCTION OF THE TABLES.

Tables LIVA and B. Advance of "a," "b," "c" for days, hours, minutes and seconds.

274. These Tables are to be used in calculation by the Siddhānta-Sirōmani in the same way as Tables IV, V of the Indian Calendar are used for the Sārya-Siddhānta; working first with whole numbers and resorting to the decimals only in close cases. The values of "a," "b," "c" at mean sunrise on Chaitra sukla 1 of any year being taken down from Table LX below, addition of the figures given in Tables LIVA, LIV B for the intervening days, hours, etc., up to the given date furnishes the "a," "b," "c" at any moment of any subsequent day, i.e. gives us for that moment (a) the distance between mean moon and mean sun, (b) the moon's mean anom., (c) the san's mean anom. The figures are parts of the circle,—a ten thousandths, b and c thousandths.

To arrive at an exact estimate of the value of these quantities an examination was made of Prof. Jacobi's fixtures for their value at mean sunrise of the first day of the 42nd century K.Y., a moment, that is, separated from the epoch of the Kaliyuga or mean Mēsha-samkrānti K.Y. 0, by exactly 4200 years K.Y. Mean Měsha-samkranti K.Y. 4200 (expired) took place on Friday 25 March A.D. 1099 at 10h 30m after mean sunrise and therefore 13h 30m before the mean sanrise of Saturday. 13h 30m=33gh 44p, the amount of Jacobi's "Cor.," or correction (Epig. Ind., Vol. I, Table XIII, p. 450). In that Table he gives the figures for the beginning of century 42 K.Y. as "a" (Dist. (-⊙)=14° 18′ 0", "b" (('s anom.)=51° 24′ 13", "c" (⊙'s anom.)=281° 1' 19". Owing to his arrangement of Tables, by which he gives only one Table for calculation of solar days (Table XXI) applicable to all Siddhantas, whereas the date of occurrence of mean Mesha-samkranti by the Siddhanta-Siromani is always a day earlier than by the other authorities, we have, for comparison with his tabular figures, to add a day's increase to the above valuation. This gives us "a"=26° 29' 27", "b"=64° 28' 7", "c"=282° 0' 27". Adding the increase in 13h 30m or 33sh 449 (Jacobi's "Cor.," Table XXII), we have finally for the values at mean sunrise of Sunday "a"=33° 20' 40"-4, "b"=71° 48' 50"-86, "c"=282° 33' 41".36. In 10,000ths of the circle (a), and 1,000ths (b and c), these values shew the increase in 4,200 years to have been a=926-237654, b=199-483677, c=784-893163. From "a" has to be deducted in accordance with our Indian Calendar working-system the sum of the greatest equations of moon and sun, viz. 200.296035, and hence "a"=725.9416.

Prof. Jacobi, however, has, since his valuation published in Vol. I, slightly modified his estimate of this value of "a." In Vol. XI above (Table IX, B) he states the three values as a=7263, b=1995, c=7849. In my notation these figures are $a=726\cdot3$, $b=699\cdot5$, $c=284\cdot9.$ The difference being very small (0.4), I conclude to accept his later estimate of the increase of "a."

On this basis then, viz. the exact amount of increase of "a," "b," "c," in 4200 K.Y. years, has been calculated the increase per civil day (Table LIVA), per hour, minute and second (Table LIVB), per year and per century (heading of Table LIVA), according to the Siddhanta-Siromani. The valuation of increase of "a" differs from that of the Sürya-Siddhanta by about 2 units in a century. Note that a common century consists of 36,526 days, a defective century of 36,525 days. The whole period consisted of 1,534,087 civil days.

To assist in the calculation the yearly increases of "a," "b," "c" given, from year to year, in Prof. Jacobi's Special Tables (above, Vol. I, Tables XVI, XIX) were also referred to. It would have been easier had these contained decimals of seconds.

¹ I measure the ('s and O's anom. from perigee, Jacobi from apogee.

Tables LV, LVI. Equations of the centre-moon and sun.

275. The values of "a," "b," "c" at any moment, which fix the positions of mean moon and mean sun, having been found by use of Tables LIVA and B, the tithi, or the position of the true moon with reference to the true sun, is ascertained by applying the equations of moon (eqn. "b") and sun (eqn. "c") to the value of "a." Tables LV, LVI give these equations in closer detail than heretofore (compars Tables VI, VII, "Indian Calendar"), enabling great accuracy to be obtained.

Each equation (col. 3) is the exact value (the value, that is, to be used in our system of work), in 10,000ths of the circle, of the equation of the mean anomaly angle ("Arg.") stated on either side in cols. 2a, 2b. Col. 1 gives the number of the base-equation, that is to say, the serial number of the equation of each of the 24 base-angles of anom.; each such angle separated from the next by 3° 45′, the whole forming the quadrant of 90°. Each section of 3° 45′ is divided into five equal parts, the whole forming a group within the limits of which, following universal Hindu practice, the equation is computed by the fixed value of the sine of the base-angle. In 10,000ths of the circle 3° 45′=10′416, and one-fifth of this is 2°083. The difference, col. 4, is the difference between the equations of each of the five parts of the group.

When examining a date Tables VI, VII of the Indian Calendar or Tables LXXXIV, LXXXV below may be used for obtaining approximate results, or the new Tables may be used with whole numbers only. The latter form a sort of eye-Table. Absolute accuracy, or very close approximation, can be obtained by using the decimals as a whole or in part. Thus—

(Rule) Take the difference between the value of anom., ('b'' or "c''), found in work for a date, and the nearest to it, greater or less, in col. 2a or 2b of Table LV or LVI respectively. Multiply this difference by the group-difference (col. 4), and divide the quotient by 2.083. Add, or subtract, the result to, or from, the next equation. This gives the exact value of equation "b" or equation "c." For an approximation use only one or two decimals, and instead of dividing by 2.083 divide by 2 or by 2.1.

The amount of "equation b" or "equation c" is a compound of the actual equation for the given anom. and the greatest equation (which is the actual equation for anom. $v0^\circ$). The first half of each of the equation-Tables LV and LVI concerns the quantity of anom. $v0^\circ$ to 180° , or, in 1,000ths of circle, 0 to 500. Here the tabulated "equation b" (Table LV) is the moon's greatest equation plus the actual equation of the given anom. The tabulated "equation b" in the second half of Table LV deals with the moon's anom. 180° to 360° or, in 1,000ths of circle, 500 to 1000; and the tabulated equation is the greatest equation minus the actual equation of the given anom. In the first half of Table LVI (for sun's anom. 0° to 180° , or, in 1,000ths of circle, 0 to 500) the tabulated "equation c" is the sun's greatest equation minus the actual equation. In the second half (for sun's anom. 180° to 360° , or, in 1,000ths of circle, 500 to 1000) the tabulated equation is the sun's greatest equation plus the actual equation of the given anom.

The actual equation-Table for the moon is given below—Table LIX. That of the sun in Table XLVII above. All details have been fully worked out by the proper formula.

For method of work see Example 3 below.

TABLES LVIIA, B, C.

Value of "a," "b," 'c" for centuries, years and days.

276. These Tables enable us to ascertain the value of "a," "b," "c," and so to determine the exact position of mean moon and mean sun at the beginning of any year with which the general Table LX is concerned. Table LVIIA gives the "a," "b," "c" of mean sunrise, i.e. mean annrise of the day on which mean Mesha-samkranti occurred at the beginning of the century; Table

LVIIB the same for the beginning of the given year; Table LVII C the same for the days on which true Mesha-samkranti occurred and on which began the luni-solar year. The respective week-days for the beginning of the solar and luni-solar year are given in Table LX, but can be found also by these Tables.

In the case of a date in the solar year the values of "a", "b", "c" in Table LVIIA are added to those of Table LVIIB, and the sam of these is added to the values of the day of true Mēsha-samkrānti in Table LVIIC. The values for the interval of days between true Mēsha-samkrānti and the day given in the date in question are obtained from Table LIVA, and thus are found the positions of moon and sun at mean sunrise of the latter day. For any subsequent moment of that day the values in Table LIVB are added to the result.

In the case of a date given in the lumi-solar year (the most usual method) Table LX provides the "a", "b", "c" for mean sunrise on the initial day of the lumi-solar year, while Tables LIVA and B enable the calculation to be completed. The values given in Table LX can be checked by Tables LVIIA, B, C.

From the "a", "b", "c" of true Mesha-samkranti in any year, found by Tables LVIIA, B, C, the "a", "b", "c" of each true samkranti in the year are found by addition of the values given in Table LVIIIA; and by the result it is ascertained whether there was any intercalation or suppression of a lunar month in the given year.

277. Table LVIIA. The most important point here is the settlement of the values of "a", "b", "c" at the moment of mean sunrise of the day on which the 42nd K.Y. century began. This was the day on which occurred mean Mēsha-samkrānti of K.Y. 4200, or A.D. 1099-1100. In § 274 above details are given explaining Prof. Jacobi's values for the moment in question. Enough has been said about the value of "a". The following notes about the respective values of "b" and "c" may be found helpful.

The value of "b", the moon's mean anom. for K.Y. 4200. In my notation this was stated as in 1,000ths of the circle, 699 4837. Working the calculation by the values given in the heading of Table LIV for the mean moon's movement in 4,200 years, consisting of 37 common and 5 defective centuries, the total is found to be, excluding whole revolutions, 548 145255. To this has to be added the moon's mean anom, at the epoch of the Kaliyuga. At that moment the moon's apsis (perigee) stood at 305° 29′ 46″,—apogee being at 125° 29′ 46″ 1—and the mean moon was at 0°. Therefore her mean anom, was (360°—305° 29′ 46″) 54° 30′ 14″. This in 1,000ths of the circle is 151 3997. Adding this to the above, her mean anom, "b", at mean sunrise of the day on which mean Mēsha-samkrānti occurred in K.Y. 4200 expired is found to be 699 5449. The difference between the two calculations is 0.0612. Both agree with Jacobi's valuation 699 5.

The value of "c" the sun's mean anom. At the epoch of the Kaliyuga the sun's apsis (perigee) was at long. 257° 45′ 36″. Mean sun being at long. 0°, the sun's mean anom, was (360°-257° 45′ 36″) 102° 14′ 24″. This, in 1,000ths of circle, is 284·0. The increase of "c" (Table LIVA, heading) in 37 common and 5 defective centuries, total 42, is, excluding whole revolutions, 4·278478. This, added to the value of "c" in K.Y. 0, viz. 284·0, gives the value of "c" at beginning of K.Y. 4200 expired as 288·278478. From this has to be deducted the amount of the decrease in the sun's mean anom, due to the forward shift of the apsis. This was shewn above (§ 273, ii) to be, in 1,000ths of the circle, 0·0805 per century. In 42 centuries the decrease amounts to 3·383, 288·278478 – 3·383 = 284·8951. In § 274 the valuation was given as 284·893163. The difference between the two is less than 0·002, and both agree with Jacobi's valuation 284·9.

Comparing the two sets of results I have decided to adhere to Prof. Jacobi's own fixtures, as given in § 274; and, fully worked out, the figures for mean sunrise on Sunday 27 March A.D. 1099 are $a=726\cdot307704844$, $b=699\cdot483676555$, $c=284\cdot893163057$. For two days earlier, namely for mean sunrise on Friday 25 March A.D. 1099, on which day mean Mesha-samkranti of K.Y. 4200 expired took place at 10^h 30^m after mean sunrise, the correct details, obtained by deduction of 2 days' value (Table LIVA) from the above, are—

(6) Friday a=49·043734020 b=626·900376983 c=279·417587971.

This explains the first entry in Table LVIIA. The rest follow by addition of the century values given in the heading of Table LIVA. Century 42 was a defective one of 36,525 days. The rest were common ones, each of 36,526 days.

36,525 divided by 7 leaves remainder 6. Mean Mesha-samkranti in K.Y. 4200 took place on 6 Friday. 6+6=(week-day) 5. Hence the day of the week of mean Mesha-samkranti in K.Y. 4300 was 5 Thursday; and since 36,526 divided by 7 leaves no remainder, mean Mesha-samkranti at the beginning of each of the following centuries took place on a Thursday.

Coupling the arrangement made in Table LVIIA for centuries with the arrangement for days made in Table LVIIC, the result of calculations made by these Tables coincides precisely with those obtained by use of Jacobi's Tables. Such arrangement is the one best suited to the requirements of the Siddhānta-Śirōmani. An example will best illustrate this.

Given that it is desired to find the "a", "b", "c" at mean sunrise of the day on which true Mēsha-sainkrānti took place in K.Y. 4806 expired, A.D. 1705.6. This day was (see Table LX) Tuesday 27 March A.D. 1705.

Worked by Jacobi's Tables IX, X, XIII of Epig. Ind., Vol. XI, we have-

P 10	10-d.	a.	b.	c.
For cent, 48	0	3619:0	696-0	784-1
" year 6	0	1942.7	515.0	998.5
True Mesha-samk. dayt	3	8645.5	854-8	989-0
	3 (Tues.)	4207-2	65.8	771-6

In my reckoning, "b" and "c" being calculated from perigee instead of from apogee, these are a=4207.2, b=565.8, c=271.6.

Worked, with only one decimal, by Tables LVII A, B, C below, the result is the same;

	w-d.	a.	b.	e.
For cent, 48	. 5	2941.8	123.5	278.7
y year 6	. 0	1942-7	515.0	998-5
True Měsha-samk, day	. 5	9322-7	927-4	994-5
	3 (Tt	ies.) 4207-2	565-9	271-7

278. Table LVIIB. This Table shews the increase of a, b, c for each year of a century corresponding with Prof. Jacobi's (Epig. Ind., Vol. XI) Table X, but in greater detail, derived from use of the figures given in the heading of Table LIVA.

¹ Jacobi's Table XIII is framed to suit all Siddhäntas. By the Arya- and Sarya-Siddhäntas the day on which true Mesha-sankranti occurred is shown as "O Vaisākha," 4 Wednesday. By the Siddhänta-Śirömani that day was a day earlier (abone, § 273, i), namely the day tabulated by Jacobi as "29 Mina," 3 Tuesday.

279. Table LVIIG. Col. 1 shews the number of day's interval between mean sunrise of true Mēsha-samkrānti day, "Mēsha 0," and mean sunrise of the day which in each year was coupled with the first tithi of the luni-solar year and was called the day of "Chaitra sukla 1." Col. 2 gives the number of the day of the solar month Mina (Panguni in the Tamil country); col. 3, the week-day; cols. 4, 5, 6, the value of "a", "b", "c" at mean sunrise of that day. The "a," "b," "c" of mean sunrise on the first day of the luni-solar year called "Chaitra sukla 1" are found by adding to the "a", "b", "c" of the K.Y. century (Table LVIIA) and of the year (Table LVIIB) the values of "a", "b", "c" given in Table LVIIC for the number of days intervening between the day of Chaitra sukla 1 in the given year and the day of true Mēsha-samkrānti (Table LX, cols. 13, 19,—figures in brackets). This work, however, need not be carried out by epigraphists, since the required values of "a", "b", "c" for Chaitra sukla 1 in each year are stated in Table LX, cols. 23, 24, 25.

These values being known, the tithi-ind-x at mean sunrise on any day in the given year is easily found, as in work by the Indian Calendar, by addition to them of the "a", "b", "c" for intervening days given in Table LIVA; and for any moment of any day by use of Table LIVP.

Tables LVIII-A,-B,-O,-D. Duration of true solar months.

280. Table LVIII-A is, for the Siddhānta-Sirōmani, what Tables XVIII-A,-B in my Indian Chronography are for the Ārya- and Sārya-Siddhāntas. It states the duration of each true solar month from samkrānti to samkrānti, and the collective duration from true Mēsha-samkrānti to each true samkrānti, with the corresponding increases of "a", "b", "c". By the aid of this Table are calculated the solar elements of the date and the intercalations and suppressions of lunar months. The Table is designed to suit the year K.Y. 4500 expired, A.D. 1399-1400,—the year of my Table XLVIII-C above. The differences in the duration of months in other years, caused by the shift of the sun's apsis, are dealt with in Table LVIII-D.

Tables LVIII-B and ·C are supplementary and explain themselves. They will be found very useful in calculation for the sun's mean anom., "c", and the corresponding "equation c" at the several samkrantis and at true Měsha-samkranti in different years.

Table LVIIID shows how the shift of the sun's apsis affects the duration of the several solar menths in different years, and the "a", "b", "c" at the several solar samkrantis. The change given in the Table is that for an interval of three centuries on either side of K.Y. 4500, and in very close cases should be applied to the figures arrived at by use of the other Tables—cases that is, where after use of those figures it seems doubtful whether a certain lunar mouth was intercalated or suppressed.

For an example of its use. Compare the positions of sun and moon at the moment when the true sun reached the Dhanus-sankranti in K.Y. 4200 (A.D. 1100) and in K.Y. 4800 (A.D. 1700). Table LVIII-A shews that in K.Y. 4500 the sun took 246st 9^h 9^m 34st to travel from Mēsha-sankrānti, long. 0°, to the Dhanus-sankrānti, long. 240°, while the increase of "a," "b", "c" during this interval was—"a"=3432.7047, "b"=941.5957, "c"=674.5407. To ascertain what this respective increase was in K.Y. 4200 we use the correction given in Table LVIII-D—thus

a. "b. c:

These last are the correct figures for the year K.Y. 4200, A.D. 1100. For the year K.Y. 4800, using the figures of Table LVIII-D with reversed sign, the correct figures are found to be 249^d 9^h 14^m 29^s, "a"=3433·8610, "b"=941·7196, "c"=674·5499. In a close case this difference in value of "a", "b", "c" may prove the intercalation or suppression of a different lunar month.

Changes for years less than 300 may be taken proportionally. The Table need seldom be

used, as it is only very occasionally required.

281. The determination of the exact lengths of the several solar months and their collective duration (Table LVIIIA) has been a matter of considerable difficulty, and in publishing the quantities given in the Table I must not be held to assert that the mediæval Hindu used those lengths and no others. He may have calculated roughly, or, if scientifically, then by several different processes.

Take as an example the time of the true sun's arrival, say in K.Y. 4500, at the Vrishabha

samkranti, 30°, in order to determine the length of the solar mouth Mesha.

(i) One method of reckoning is that which was used in the preparation of Table XLVII-C (above), viz. by applying to the mean long, of the san (col. 4) the equation of the centre (col. 6) as found by computation from the Hindu equation Table (Table XLVII), which is based on a series of groups of angles; and so obtaining the sun's true long. According to this system it is found that in the first 30 whole days from true Mēsha-samkrānti the sun travelled 29° 7′ 28°-60 (Table XLVIII-C, col. 8). Before he reached 30°, therefore, he had to travel 52′ 31°-40.

(ii) Another method is, discarding the group system of the equation-Table, to ascertain directly the value of the sine of the mean anom, angle at the beginning of the 30th day after the moment of true Mēsha-samkrānti, and to work the equation of that sine-value; afterwards calculating for the remaining hours and minutes taken by the sun to reach 30°. The value of

the sine is obtained by the method described in § 282.

Thus we find from Table XLVIII-C that the sun's mean anom, at the beginning of the 30th day was 128° 21' 25232, or 7701' 25232. This divided by 225 is 34 with remainder 51' 25232. The 34th sine is, counting down and then up on the left side of the equation-Table, the base sine No. 14, or the side of 127° 30'. This is 2728', (col. 3). The difference between this and the next base sine is 143' (col. 4). 51' 25232 × 143 = 7329' 08176, and this divided by 225 is 32' 57369. 2728' - 32' 57369 = 2695' 4263; and this, therefore, is the sine of the given anom, angle 128° 21' 25232.

The equation-formula is sin. eqn. = $\frac{1}{1080}$ sin, anom. (§ 258 above) and the result is (the angle being a small one) that the equation=1° 42′ 21° 578. The sun's mean long. (Table XLVIII-C, col. 4) at the beginning of this 30th day was 27° 25′ 9° 14; and, adding the equation we find that his true long. at that moment was 29° 7′ 28° 72. The true sun, before he reached long. 30°, therefore, had to travel (30° - 29° 7′ 28° 72) 52′ 31° 28.

In either of the above cases how long did he take to accomplish the journey ?

To ascertain this we may either use the sun's mean motion (Table XLIV); or we may use the true motion in hours for the particular 30th day (Table XLIX), as fixed by the group system of the equation-Table, with his mean motion in minutes and seconds (Table L, LI); or we may carefully work out his true motion for that 30th day by dividing his motion during that day by 24 for hours, and again by 60 for minutes, and each minute by 60 for seconds; or, yet again, even still more accurately, by calculating his real motion during the particular hours of the day actually concerned, and so the rest.

Thus it is clear that we can calculate the length of Mesha in a number of ways, with slight differences in the result of each; and so with all the solar months and their collective lengths. These differences in the lengths of months may amount to two or three seconds in each, and at some parts of the orbit the cumulative difference may amount to perhaps a quarter of a minute, but probably not more than that.

I have tried all the methods noted above, except the last, which it seemed unnecessary to attempt, in order to arrive at the exact lengths of the months, and believe that my Table LVIII-A is sufficiently accurate. Since it is not known how the medieval Hindu astronomers carried out their computation, no better course presented itself.

Let it be noted that any little difference that may exist will have no effect whatever on the value of the tithi; and as regards the intercalated and suppressed months care has been taken to avoid any possibility of error by a special note of every close case in the page preceding the body of Table LX.

Table LIX. The moon's equation of the centre.

282. The Table itself requires no explanation. The equations have been calculated by the proper formula, viz. sin. eqn. = $\frac{\sin \alpha \times \text{mins. in epicycle}}{\text{mins. in orbit}}$, here $\frac{\sin \alpha \times 1896'}{21600'}$, or $\frac{79'}{900'}$, sin. α . (§ 251 above; and especially § 272, para. 3. Moon's epicycle 31° 96'=1896'.)

It has to be noted, however, that—whereas, when (as in the case of the equation of the sun) the sine of the equation-angle is less than 3° 45′, the equation is the same as the sine and therefore the formula may be read as "eqn. = $\frac{79}{900}$ sin. α "—here, in the lower half of the Table of the moon's equations, the sine of the equation-angle is greater than 3° 45′. Thus sin. eqn. 90° is 5° 1′ 46′'8, but eqn. 90° is 5° 2′ 7° 366.

The rule for finding the equation, when sin. eqn. is greater than 3° 45′ and less than 7° 30′ (it is always less in the present case), is as follows. First ascertain the value of sin. eqn. by the above formula. Deduct 225′ from this value; either multiply the remainder by 225 and divide the product by 224 or add to the same remainder a 224th part of itself (see cots. 2, 3, 4, Table LIX). Add to the result 225′ (col. 3).

Thus for the given moon's mean anom. 90°. Sin. $90^\circ = 3438'$ (col. 3), and $\frac{79' \times 3438'}{900'} = 301''78$, or 5° 1' 46°'8, as stated above. This is the value of the sin. eqn. For the equation we work with 301''78 as the given angle. This minus 225' = 76''78. $76''78 \times 225 = 17275''50$, and this divided by 224 is $77' \cdot 122768$. $77' \cdot 122768 + 225' = 302' \cdot 122768$, and this = 5° 2' 7" 366068, which is the correct equation of the moon's centre when his mean anom. is 90° . Worked in the other way, a 224th part of $76 \cdot 78$ is $0 \cdot 342768$, and this added to $76 \cdot 78$ gives the same result, viz. $77 \cdot 122768$.

283. It is advisable here to state the Hindu rule for finding the sine of any angle, viz.:—
Ascertain the number of minutes contained in the given are. Divide these by 225' (= 3° 45').
The quotient is the serial number of the preceding base-sine as given in Table LIX, col. 1. Multiply the remainder by the difference between the preceding and succeeding base-sines (col. 4) and divide by 225. Add the result to the preceding base-sine. Thus with are 24° or 1440' and divide by 225 yields quotient 6, remainder 90. 6 is the serial number of the sine of 22° 30' (ccl. 1). The difference between the base-sine No. 6 and base-sine No. 7 is (col. 4) 205. 90 × 205 = 18450, and this divided by 225 = 82, with no remainder. The preceding base-sine, No. 6, is 1315', and this plus 82 = 1397'. 1397' is the sine of 24°.

283 A. The equation-Table for the moon's centre given below (Table LIV) is practically the same as that of Prof. Jacobi's Table XXIV-A (Vol. I, p. 458, above); but in the former decimal points are given which are omitted in the latter. We agree also in our equation-Tables for the sun (mine in Table XLVII, above, his in Table XXIV-B, Epigraphia Indica Vol. I, p. 459). But there seems to be some mistake in the figures entered by him, stated in parts of the circle, in his equivalent Table of the equations of the sun's centre given in Epig. Ind. Vol. XI

The Hindu rule laid down in the Sürya-Siddhänta (vv. 31-33) is, as interpreted by Spottiswoods (Journal of the Royal Asiatic Society for 1863, Vol. XX), siv. ** (225 + 0) = 0 $\left\{\frac{\sin \left((s+1) \cdot 225'\right) \cdot \sin s \cdot 225'}{225'}\right\}$. The sine is a line, not a ratio.

(Table XII, p. 169, col. " \triangle 10") for differences in consecutive equations. For instance, the equation for anom. 221° 15' is 1° 26' 3".72 (base-equation No. 11) and for anom. 225' is 1° 32' 17".28 (base-equation No. 12). Difference 6' 13".56. There is a difference of 225' in the anomalies, and 6' 13".56 \div 225 gives the difference per minute of anom. as 1".66. In this we both agree.

Now 6' 13' 56, in 10,000ths of the circle, is 2'8824, or, with two decimals only, 2'88, but Prof. Jacobi in Vol. XI quotes "2'78" as the figure. It stands between his "arg. c" 1146 and 1250, which are the equivalents in his notation of the anom. angles corresponding to 221° 15' and 225°—serial numbers 11 and 12 in the equation-Table.

One-fifth of 2.8824 = 0.5765, and this is the entry given in col. 4 of Table LVI below as the group-difference for all anom. angles between those of the serial numbers 11 and 12.

I venture to suggest the following amendments to all the entries in Prof. Jacobi's col. " \(\Delta \) 10," reading from top to bottom of his Table XII (Vol. XI):-

For	3.75			For	3.29	read	3.36	For	1.83	read	1.86
30	3.85		3.94		3.07	**	3-22		1.23	99	1.63
22	3.75	99.	3.30	,,	2.88	21	3.06		1.34	**	1.39
**	3.65	n	3.82	19	2.78	**	2.88	.,	1.12		1-14
	3.65	190	3.78		2.59	. 115	2.71	39	0.86	***	0.80
	3.56	19	3.69	7	2.40	16	2.51	199.00	0.58	783	0.85
100	3.46		3.61		2-21		2.30	1000	0.38	39	0.39
	3.36		3.50	In the said	2.02		2.09		0.10	17	0.15

These differences stand in regular progression. It is possible that the Professor's first entry "3.75" is a printer's error for 3.95; but even so our agreement is only in that one out of 24 entries.

Table LX. Working Table for computation of dates.

284. Table LX is the principal working Table by which the tithi, lunar and solar month and day, nakshatra and yoga given in the date of a document or inscription and based on the Siddhānta-Širōmani can be verified and converted into European reckoning; the nakshatra, yoga and lagna being still more accurately computed by use of Table XLVIII-C above. Table LX is to be used exactly as Table I of the Indian Calendar is used for Ārya- and Sūrya-Siddhānta reckoning. In the latter whole numbers only are given. Here four places of decimals are added (they need not of course be used, unless necessary), and seconds of time are given as well as minutes. For further explanation see the page of note preceding the Table.

To be entirely on the safe side, and for convenience of working from the beginning of a century of the Kaliyaga, as well as for guidance in studying the working of the Metonic cycle according to this authority, the Table begins with K.Y. 4200 expired (A.D. 1099-1100); though in all probability the Siddhanta-Śiromani was not used in India for the preparation of almanacs till A.D. 1150 at earliest.

A date should be first computed approximately by use of whole numbers only, and the equation-Tables LV and LVI used merely as eye-Tables. Very great accuracy can be obtained by close work in greater detail.

Each intercalation and suppression of a lunar mouth has been carefully calculated. For the process reterence may be made to my *Indian Chronography*, §§ 95-103, and Examples 27-32. The months are true months, as it is almost certain that calculation by mean months was never resorted to at so late a date as that when our authority came into use.

(Cols. 13, 14, 17.) See the last para of § 273 above. The true sun arrives at 0° every year after a journey lasting 3654 6h 12m S*84025. The moment of this arrival, i.e. the moment of true Měsha-samkränti in the first year of the Table, was fixed by calculation from Dr. Schram's determination of the \$\dilphi\delta dhya and the sun's equation at that instant (above, § 273). For all later years the time-interval was added to this. The result accords exactly with Dr. Schram's fixtures.

(Cols. 19-20.) The luni-solar date, week-day and "a", 'b", "c" have each been separately calculated. For process see Example 2 below. The date and week-day are generally the same as those found by Sūrya-Siddhānta computation, but differ from these in occasional close cases, and where the intercalations and suppressions of lunar months differ.

The 19-year Metonic sequence.

285. [For a note as to this see Indian Calendar, § 50, p. 29.] This sequence, in work by the Siddhānta-Širōmani, proceeds with the same general regularity as when computed by the Ārya- and Sūrya-Siddhāntas. In the period of 650 years dealt with in Table LX the intercalated lunar months are, in seven cases, the month next to that expected by the sequence, not that month itself (see note preceding the Table). The rest are regular. Suppressions follow the sequence in all cases. In the same period there are six such irregularities by Sūrya-Siddhānta and two by Ārya-Siddhānta work.

Future research will no doubt settle the question whether the irregularity of seven out of 260 cases of intercalations and suppressions in the period embraced is attributable to the postulates of the Siddhānta-Širāmani or to any defect in my calculations. All possibility of error, however, in computation of dates of records by these Tables is removed by the footnotes entered in each case and the Remarks embodied in the page preceding Table LX. Whenever a record-date belonging to either of these seven years is examined, it should be tested both ways.

EXAMPLES.

Example 1. To find the value of "a", "b", "c" for the moment of true Mesha-samkranti in any year, the beginning of the solar year.

Rule. Note in Table LX the number of the expired year of the Kaliynga (col. 2.) [In this column the K.Y. year is that current in the corresponding A.D. year. The expired K.Y. year is the next earlier]. Note (cols. 13-17) the day, week-day, and time of occurrence of true Mēsha-samkrānti in that year. Take from Table LVII-A the week-day and "a", "b", "c" for the beginning of the K.Y. century; from Table LVII-B the same for the expired K.Y. year of the century; from Table LVII-C the same for the day marked "Mēsha 0" (col. 2), or the day next to it, being guided by the given week-day (Table LX, col. 14); and add together the three sets of values so obtained. The sum of these shews the positions of the moon and sun (a, b, c) at mean sunrise of the day on which true Mēsha-samkrānti occurred. For the moment of the samkrānti add to these values of "a", "b", "c" those for the hours, minutes and seconds elapsed since mean sunrise (col. 17), obtaining them from Table LIV-B.

Work. Given that the values of "a", "b", "c" are wanted for the moment of mean sunrise of the day on which true Mēsha-samkrānti occurred in K.Y. 4492 expired, A.D. 1391-2; and at the moment of that samkrānti.

Table LX shews that the day was (0) Saturday 25 March A.D. 1391, and that the samkranti occurred on that day at 17h 18m 12s.

(i) Approximate calculation, by whole numbers.

THE STREET STREET		10-0	l. a.	0.	e
Table LVII-A. K.Y. cent. 44 .		. 5	7454	768	277
" LVII-B. Year 92		. 4	9389	545	1
" LVII-C. Měsha 0		. 5	9523	927	995
At mean sunrise of Sat. 25 March		. 0	(Sat.) 6166	240	278
Table LIV-B. 17 hours	100		240	26	2
18 minutes	*		4	0	0
At moment of samkranti	- 19	110	6410	266	275

(ii) Fall calculation. Worked to the full extent, with use of decimals and including the value of "a", "b", "c" for seconds the result is→

For mean sunrise, a=6166.1839, b=240.2250, c=272.5113.

For moment of Mesha-samkranti, a=6410.3281, b=266.3902, c=274.4852.

Note. The value found for "c" will always be a guide as to whether the calculation has been made for the right day (see Table LVIII-C below); for at true Mēsha-samkrānti "c" is always 274 or 275. In this case let it be observed that 8 years later than the given year, viz. in K.Y. 4500, the value of "c" at true Mēsha-samkrānti was 274:4058. The change in "c" at that moment, owing to shift of sun's apsis (§ 273, ii), being 0.0805 per century, and our calculation having been based on the value for K.Y. 4400, we should, for extreme accuracy, deduct from 274:4852 the proportional change for 92 years, which amounts to 0.0741, leaving our c for A.D. 1391=274:4111.

Example 2. Required to find the value of a, b, c at mean sunrise of the civil day called Chaitra sukla 1, the civil beginning of the luni-solar year K.Y. 4492 expired, A.D. 1931-2.

Rule. (i) If the a, b, c of mean sunrise on the day on which true Mēsha-saṁkrānti occurred in the year in question has already been found, as above, note the interval of days between mean sunrise on the day of Chaitra sukla 1 (Table LX, col. 19) and on the day of true Mēsha-saṁkrānti in the given year (col. 13), both in brackets. With that interval of days turn to Table LIV-A and find it in col. 1. Take the week-day and "a", "b", "c" values stated against it, and deduct the amount from the ascertained value of "a", "b", "c" for the Mēsha-saṁkrānti day (mean sunrise). Thus—

In Example 1 we have determined the "a", "b", "c" values for mean sunrise on 25 March A.D. 1391, Day 84 (Table LX, col. 13). The day of Chaitra sukla 1 was 7 March, Day 66 (col. 19). Interval 18 days. We deduct 18 days' "a", "b", "c" from the former by Table LIV-A.

	w-d.		a.	. b.	e.
Mēsha 0, mean sunrise	. 0		6166-1839	240 2250	272.5113
For 18 days' interval (Table LI	V-A)-4	-(8095-3757	-653-2496	-49.2802
	3	(Tues.)	70*8082	586-9754	223-2311

These were the values of "a," "b," "c" on Tuesday 7 March A.D. 1391. (Compare entry in Table LX.)

(ii) If the "a," "b", "c" of mean sunrise on Mēsha-samkrānti day has not already been found, add together as in Example 1 the week-day and "a", "b", "c" of the K.Y. century and the year (Tables LVII A, B), and to the sum of these add the week-day and the "a", "b", "c" stated in Table LVII-C against the interval of days (as above). Here the K.Y. century is 44, the year is 92, the interval of days is 18.

		w-d.	a.	b. ;	c.
Table LVII-A. Cent. 44		5	7454-2101	768-2089	277:3743
" LVII-B. Year 92		4	9389-2378	544-5994	0.6126
" LVII-C. 18 days		1	3227-3603	274-1671	945-2442
	121	3 (Tues.)	70-8082	586-9754	223-2311

The result is the same as by process (i).

Owing to the formation of the Tables the week-day will sometimes be found to be different by one from the week-day noted in Table LX, col. 19. In such case the week-day

and "a", "b", "c" in Table LVHC to be applied must be that of the altered interval, the week-day always being that stated in Table LX.

Thus in A.D. 1390-91, K.Y. 4491, the interval (Table LX, cols. 13, 19) is (84-77) 7 days. When we come to work, we find (Table LVII-A) given the week-day 5, and (Table LVII-B) week-day 2, Total 7, or 0. Now in Table LVII-C against 7 days' interval (col. 3) we find week-day 5; but, as we have to arrive at the entry in Table LX (col. 20), i.e. at the "a", "b," "c" for 6 Friday, we add the week-day (6) and the "a", "b", "c" for it (standing for 6 days' interval instead of 7) in Table LVII-C. Such change is never more than one day.

Example 3. Given the moon's mean anom. "b", or the sun's mean anom. "c", as found in work for verifying a date, required to find "eqn. b," or "eqn. c."

The work is similar in either case. We will take an instance of a case where "e", the sun's mean aroun, has been found to be 146.3264.

By Table LVI we see that the equation for anom, values between 145.83 and 147.916 lies between 12.4786 and 12.0181, the difference between them being 0.4505. For rule of work see § 275 above.

Approximation. A glance at Table LVI shows that eqn. c must be 12 and a small fraction.

Closer work. The difference between 145:3 and the next figure of Arg. in the Table (col. 2 a), viz. 147:9, is 1:6. The group-difference (col. 4) is 0:4605. Call this 0:5. The invariable difference between successive entries of arc ("Arg.") is 2:083. Call this 2. 1:6×0:5 =0:8. This divided by 2 is 0:4. Add this to the equation stated for Arg. 147:9, viz. 12:0. Result 12:4.

Still closer work. The actual anom. difference (147-916-146-3264) is 1:5902. This multiplied by the group-difference, 0:4605=0:7323. This divided by 2:083 is 0:3515. And this, added to 12:0181 (the equation of anom. 147-916), gives us the exact equation of anom-146-3264 as 12:3696.

Example 4. To find the tithi current at mean sunrise of any vivil day, or at any moment of that day,

Rule. Take the European date, serial number of the day (in brackets measured from Jan. 1st of the A.D. year) and "a", "b", "c" of Chaitra sukla 1 of the luni-solar year, from cols. 19 to 25 of Table LX. Find the interval of days to the given day and add to the "a", "b", "c" of Chaitra sukla 1 the "a", "b", "c" for that number of days given in Table LIV-A. This gives the "a", "b", "c" of sunrise on the given day.

For subsequent hours, minutes and seconds add the "a", "b", "c" given in Table LIV-B.

Find eqn. b and eqn. c from Tables LV and LVI, and add them to the "a" already found. The result is the tithi-index; with which find the current tithi in Table VIII, Indian Calendar or Table LXVIII below.

Compare Example 4 in the section on the First Arya-Siddhanta-True System. Work in similar manner, but with the use of Siddhanta-Siromani Tables.

Example 5. Calculation for interculated (adhika) and suppressed (hishaya) lunar months.

This is the same as in work by the Indian Calendar or Indian Chronography, but the lengths of the solar months, their collective duration, week-days and "a", "b", "c" must be taken from Table LiVIII below when working by the Siddh. Siromani. In a very close case

use may be made of Table LVIII-D. But even so, in work for the tithi, or for intercalations and suppressions of months, the correction in the value of "a" need alone be taken into account, since the change in the tithi-index, "t", is governed by the value of eqn. b and eqn. c, not of "b" and "c"; and the difference in these equations is infinitesimal.

An example is here given of work by the Tables in a very close case, viz. the intercalation of a lunar month in K.Y. 4850 expired, A.D. 1749-50.

In that year, according to the Sarya-Siddhanta Bhadrapada was the added month. Was it so according to the Siddhanta-Sirōmani?

In that year (Table LX, cols. 13-17) true Měsha-samkränti occurred on Tuesday, 28 March, A.D. 1749, at 5^h 46^m 57^s after mean sunrise. First must be ascertained the position of mean moon and mean sun at that moment, individually and relatively, i.e. the values of "a", "õ", "c". For this process see Example 1

Approximate calculation with whole numbers.

			10-d.	a.	b.	c.
(Table LVII-A) For K. Y. cent	. 48	100	. 5	2942	123	279
(,, LVII-B) ,, ,, yea	r 50	197	. 0	4436	794	0
(" LVII-C) " 0 Meshan			. 5	9323	927	995
(, LIV-B) { 5 hours }	150/		2.000	71	8	1
(, 47 minutes	558	100	1 100	11	1	0
At true Mēsha-sainkrānti . (Table LVIII-A, cols. 6,7,8) Int	ereal t		, 3 (Tues.)	6783	853	275
	samkrā		5 744	2471	552	343
At true Simha-samkrānti .			1.300	9254	405	618
(Table LV) Equ. b . ,	- 24	18		218		
(,, LVI) Eqn. e		(2)	*	101		
			"t"=	9573		

Hence the moon was waning at the Simha-samkrānti. At the next (Kanyā) samkrānti was also waning or waxing?

(Above) At Simha-san	krānti						9254	105	618
(Table LVIII-A, cols.	13, 14	, 15)	Inter	val to	Kar	ıya-			
-			8	amkri	inti	17	518	127	85
At Kanyā-samkrāuti	4.		1				9772	532	703
(Table LV) Eqn. b							111		
(" LVI) Eqn. c			8		3		118		
						t=	10001		

This is so close to 10000, or 0, that it seems doubtful whether new moon took place before or after the Kanyā-samkrānti, whether, that is, at that moment the moon was still waning or had begun to wax. It is certain that she was waning at the previous Simha-samkrānti, and therefore we can calculate direct from the Mēsha to the Kanyā-samkrānti. For greater

accuracy we use one decimal place and guess a little more carefully the values of "equ. b" and "equ. c" at the latter samkranti.

							a.	Ъ.	- 17-
K. Y. cent. 48 .	2	\$					2941.8	123:4	278.8
" year 50 .							4435.0	794-4	0.2
Mēsha-samkrānti da	y (me	an s	unrise)			*	9322-7	927.4	994-5
5 hours					- 5	-	70.5	7.6	0.6
47 minutes .							11.1	1.2	0-1
At Mesha-samkranti						\$	6782:0	854.0	274-2
Interval to Kanya-	samk.	(Ta	ble LV	III-	A, col	s.			
6, 7, 8)	•	*			10	*	2089:5	679.0	428-4
At Kanyā-samkrānt	i			100	21		9771-5	533.0	702-61
	Eqn.	b					110.9		
	Eqn.	e	14				118-2		
					f:	=	10000:6	or 0.6	

On a still closer examination, using the full number of given decimals and calculating the equations b and c thoroughly, it is found that at the Kanyā samkrānti the tithi-index was 10000-9421. It is not necessary to give the full working figures. It is certain that at that samkrānti the moon was waxing, so far as we have gone, and therefore the intercalated lunar month was (Table LVIIIA, cols. 1, 2) 6 Bhādrapada.

But since the date K.Y. 4850 is 350 years subsequent to the base-year K.Y. 4500, and the lengths of the solar months have in the interval slightly changed in consequence of the shift of the sun's apsis, it is necessary to find out whether this change would make any difference in the result. We therefore correct the "a" of the Kanyā-sankrānti by Table LVIII-D. At the Kanyā-sankrānti 390 years after K.Y. 4500 the change in "a" (col. 3) was -0.0901. Increase this by one-sixth for another 50 years' change. Total change -0.1051. Hence the real tithi-index, "t", at Kanyā-sankrānti was (0.9421-0.1051=) 0.8370. Bhādrapada was certain-ly intercalated.

In § 274 above (Para. 3, p. 130) I stated that I accepted Prof. Jacobi's figures for the value of a in K.Y. 4200, although by my own estimate his was too large by 0.4. If, in this very close case, we reduce the value of "a" (found to be 9771.5 at Kanyā-sarākrānti) by 0.4, making a=9771.1, we find that the state of the true moon at the Kanyā-sarākrānti was (t=) 10000.2; or with the correction applied as in the last para. 10000.4370. Thus the moon was really waxing at that moment (new moon occurring at the point 10,000 or 0), but had only begun to do so about two minutes before the sun entered Kanyā.

¹ In all cases the value of "c" at ramkrantis should be compared with the values given in Table LVIII-B below, and the equation taken therefrom should be used.

TABLE LIV-A.

INCREASE OF "a", "b", "c" IN DAYS.

(a in 10,000ths; b and c in 1,000ths of circle.)

N.B.—By first calculation, "c" for a cent. of 36525 days is 997.690008075, and for a cent. of 36526 days is 0.427795618. Each of these quantities is reduced by 0.0805 on account of shift of ⊕'s apsis. (See Text. § 273, ii.)

This Table answers to Table IV, Indian Calendar.

DAYS OF 24 HOURS EACH.

No.	Week-	-e.	8.	6.	No.	Week- day.	a.	ь.	
1	2	3	-4	5	1	2	3	4	5
1	1	228-6320	36-2916	0.7070	100				
. 6	2	677-2640		2.7378	41	6	3883:0114	487.9576	112-249
9 3	3	1015-8960	72.5833	5.4756	42	0	4222-5434	524-2493	114987
4	4	1354-5279	108-8749	8:2134	43	1.	4581-1754	560-5409	117-724
-	5		145 1666	10:9519	44	0	4899-8073	596-8226	120-463
9	100	1603-1509	181-4582	13:6889	45	3	5238 1393	633-1242	123-200
6	0.	2031-7919	217-7499	16:4267	46	4	5577:0713	669:4159	125-938
7	0	2370 4239	254-0415	19-1645	47	5	5915-7033	705-7075	128.67
8	1	2709:0559	290-3332	21:9023	48	6	6254-3353	741-9992	131:413
. 9	2	3047-6879	326-6248	24-6401	-49	0	6592-9673	778-2908	134 15
10	3.	3380-3199	862-9165	27-3779	. 50	1	6931-5993	814-5825	136 88
- 11	4	3724 9518	399:2081	30-1157	51	2	7270-2312	and the state of t	bearing the
12	5	4063-5838	435-4998	32-8535	52	3	7608-8632	850 8741	139 62
13	6	4409/2158	471-7914	35-5912	53	1	7947-4952	887-1658	142-36
14	0	4740 8478	608-0831	28-3290	54	5		9234574	145 103
35	1	5079:4798	544-8747	41-0668	55	6	8286·1272 8624·7592	959.7491 996-0107	147:843
1979	- 10	******	200000000000000000000000000000000000000	***************************************	-		www.mines	200.0101	150:57
16	2	5418 1118	580-6664	43.8045	56	0	8963:3912	32 3324	153-31
17	3	5756-7487	616:9580	46-5424	57	1	9302-0232	68-6240	156.053
18	- 4	6005:3757	653 2496	49-2802	58	2	9640-6551	104-9157	158-79
19	0	6434-0077	689-5413	52-0180	59	3	9979-2871	141-2073	161-52
20	6.	0772-0397	725-8329	54-7558	.60	4	317-9191	177:4990	164-26
21 22	.0	7111-2717	762:1246	57:4935	61	5	656-5511	213:7906	167-00
	1	7449:9037	798:4162	60-2313	62	6	995-1831	250 0823	169.74
23	2	7788-5057	834-7079	62-9091	63	0	1333-8151	283-3739	
24	8	8127-1676	870-9995	65-7069	64	1	1872-4471	322-6656	172-48
25	- 4	8465-7996	907-2912	68:4447	65	2	2011-0790	358-9572	175:21 177:95
99	- 5	8804/4316	943-5828	71-1825	66		00.00	(A) (A) (A) (A) (A)	20110
27	6	9143-0636	979-8745	73-9208	67	3	2349-7110	395-2489	180-69
28	0	9481-6956	16-1661	76-6581	68	4	2688-3430	431.5405	18343
20	1	9820-3276	524578	79-3958	69	5	3026-9750	467-8322	186 168
30	2	158-9596	88-7495	82 1436	70	6 0	3365-6070 3704-2390	504·1238 540·4155	188:90
31	3	497-5915	125-0411	C4.093.4	100			10000000	The same
32	4	830-2235	161:3328	84-8714 87-6092	71	1	4012-8709	576:7071	194088
33	5	1174-8555	197-6244		72	2	4381:5629	612-9988	197-120
34	6	1513:4875		90:3470	73	3	4710-1349	649 2904	199-858
35	0	1852-1195	233-9161	93-0848	7.4	4	5058:7669	685-5821	202:590
-	- Mile	1002-1110	270-2077	95:8226	7.5	5	5397-3789	721 8737	205-33
36	1	2190-7515	806-4994	98-5604	76	6	5736-0309	758:1654	208-071
37	2	2529-3834	342.7910	101-2981	77	0	6074:6629	794:4570	210.809
38	31	2868-0154	379-0827	104-0059	78	1	6413-2948	830-7487	213.54
39	4	3206-6474	415-3743	100-7787	79	2	6751-9268	867.0403	216-28
40	5	3545*9794	451:0600	109-5115	80	3	7090-5588	903-3320	219-02

TABLE LIV-A-contd.

DAYS OF 24 HOURS EACH.

No.	Week-	B ₄	b.	Co	No.	We'k-	n-	tı-	e.
	2	3	• 4	ō	i	2	3	4	5
	-								
81	4	7429-1908	939-6236.	221-760s	136	- 3	6053-9500	935 9644	372-3391
82 83	5 6	7767-8228 8100-4548	975-9153 12-2069	224-4986 227-2364	137 138	5	6392-5820 6731-2140	971 9560 8-2477	375-0769
84	- 0	8445-0867	48-1986	229-9742	139	6	7069-8460	44.5393	377-8147
85	1	8789-7187	84-7902	232-7119	140	0	7408-4780	80 8310	383-2903
-86	2	9122-3507	121-0810	235-4497	141	11 3	7747-1099	117-1226	386-0281
87	3	9460-9827	157-3735	238-1875	142	2	8085-7419	153-4143	388-7658
88	4 5	9799-6147 138-2467	193-6652 229-9568	240-9253 243-6631	143	3 4	8424-3739 8763-0059	189-7050 225-9976	391-5036
90	6	476-8787	266-2485	246 4000	145	5	9101 6379	262-2892	396-9792
91	0	815-5106	302-5401	249-1387	146	-6-	9440-2699	298-5809	399-7170
92	T.	1154-1426	338-8318	251-8765	147	0	9778-9019	334 8725	402 4548
93	2	1492-7746	375-1234	254-6142	148	1	117-5338	371-1642	463-1926
94	3	1831-4066	411-4151	257-3520	149	2	456-1658	407-4558	407-9304
95	4	2170-0386	447-7067	260-0898	150	- 3	794-7978	443-7475	410-6681
96	5	2508-6700	483-9984	262-8276	151	4	1133-4298	480-0391	413-4059
97	6	2847/3026	520-2900	265-5654	- 152	- 5-	1472 0618	516-3308	416-1437
98	.0	3185-9346	556-5817	268-3032	153	- 6	1810-6938	552-6224	418-8815
100	1 2	3524-5666 3863-1985	592-8733 629-1650	271-0410 273-7788	154 155	0	2149-3258 2487-9577	588-914T 625-2057	421-6193
			21 21 11			1 8 1		020-2003	424-3571
101	3	4201-8305	665-4566	276-5165	156	2	2826-5897	661-4974	427-0949
103	4	4540-4625 4879-0945	701-7483	279-2543 281-9921	157 158	3 4	3165-2217 3503-8537	697:7890	429-8357
104	5	5217-7265	738-0399 774-3316	284-7299	159	5	3842-4857	734-0807 770-3723	432-5705 435-3082
105	ů.	5556-3585	810-6232	287-4677	160	6	4181-1177	806-6640	438-0160
106	1	5894-9905	846-9149	290-2055	161	0	4519-7497	842-0556	440:7838
107	2	6233-6224	883-2065	202-9433	162	ï	4858-3816	879-2473	443-5216
108	3	6572-2544	919-4982	295-6811	163	2	5197-0136	915-5389	446-2594
109	4	6910-8864	955-7898	298-4189	164	3	5535-6450	951-8306	448-9972
110	5	7249-5184	992-0815	301-1566	165	4	5874-2770	988-1222	451:7350
111	6	7588-1504	28-3731	303-8944	166	- 5	6212-9006	24-4139	454-4728
112	0	7920-7824	64-6648	306-6322	167	6	6551-5416	60-7055	457-2105
113	1 2	8265-4144 8604-0463	100-9564	309-3700	168	0	6890-1735 7428-8055	96-9972	459-0483
115	3	8942-6783	173-5397	314-8456	170	2 0	7567-4375	133-2888 169-5805	462-6861 465-4239
116	4	9281-3103	209-8314	317-5834	171	3	7906-0695	205-8721	468-1617
117	5	9619-9423	246-1230	320-3212	172	4	8244-7015	242-1038	470 8995
118	6	9958-5743	282-4147	323-0390	173	5	8583 3335	278-4554	473-6373
119	0	297-2063 635-8382	318-7063 354-9980	328-5345	174 175	6	8021-0655 9260-5974	314-7471 351-0387	476-3750 479-1128
121	2	The state of the s		The state of the state of	The second	100			DESCRIPTION OF THE PARTY OF THE
120	3	974-4702 1313-1022	391-2896 427-5813	331-2723 334-0101	176	1 2	9599-2294 9937-8614	387-3304 423-6220	481-8506
123	4	1651-7342	463-8729	336-7479	178	3	276-4934	459-9137	484-5884 487-3262
124	5	1990-3662	500-1646	339-4857	179	1	615-1254	496-2053	490-0640
125	6	2328-9982	536-4562	342-2235	180	5	953-7574	532-4970	492-8018
126 127	0	2667-6302	572:7479	344-9613	181	6	1292-3894	569-7886	495-5396
128	1	3006-2621	609-0395	347-6990	182	70	1631 0213	605-0803	498-2773
129	3	3344-8941 3683-5261	645-3312 681-6228	350-4368 353-1746	183 184	1 1	2008-2853	677-6636	502-7529
130	4	4022-1581	717-9145	355-9124	185	3	2646-9173	713-9552	506-4907
131	- 5	4360-7901	754-2061	358-6502	186	-4	2985-5493	750-2469	500-2285
139	6	4699-4221	790-4978	361-3380	187	5	3324-1813	786-5385	511 9663
1:3	0	5038-0541	829-7894	364-1258	188	6	3662-8133	822-8302	514-7041
275.0	- 1	5376-6860	863-0811	366-8635	189	0	4001-4452	859-1218	517-4419
134 135	2	5715-3180	899-3727	369-6013	190	1	4340-0772	805-4135	520-1796

TABLE LIV-A-contd.

DAYS OF 24 HOURS EACH.

192 3 5017·3412 967·9968 525·6552 242 4 1948·9405 782·5793 662·5444 193 4 5355·9732 4·2884 528·3930 243 5 2287·5725 818·8769 665·2824 194 5 5694·6052 40·5801 531·1308 244 6 2626·2044 855·1626 668·0291 195 6 6033·2372 76·8717 533·8686 245 0 2964·8364 891·4542 670·7686 196 0 6371·8691 113·1634 536·6064 246 1 3303·4684 927·7459 673·4938 197 1 6710·5011 149·4550 539·3442 247 2 3042·1004 96·0375 676·2335 198 2 7049·1331 185·7467 542·0820 248 3 3980·7324 0·3292 678·9713 199 3 7387·7651 222·0383 544·8197 249 4 4319·3644 33·6288 681·7091 </th <th>1000</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th></th> <th></th>	1000						-	-		
191	No.		a.	ь.	£.	No.		a.	b.	c
1992 3 60172412 907-9968 325-6532 422 4 1948-9407 752-773 662-5441 1948-9407 752-772 1948 5 5604-9002 40-5801 531-1308 244 6 263-2044 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 855	1	2	3	4	ā	1	2	• 3	4	5
1992 3 60172412 907-9968 325-6532 422 4 1948-9407 752-773 662-5441 1948-9407 752-772 1948 5 5604-9002 40-5801 531-1308 244 6 263-2044 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 665-282-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 668-262-104 855-1626 855	191	2	4678-7092	931-7051	522-9174	241	3	1610-3085	746-2876	659-8068
193			5.00 Pt 100 Pt 1							11 10 10 10 10 10 10 10 10 10 10 10 10 1
194										
195										THE RESERVE OF THE PARTY OF THE
1967										670-7580
198	196	0	6371-8691	113-1634	536:6064	246	1	3303-4684	927-7459	673-4938
198	197	-1	6710-5011	149-4550	539-3442	247	9	3642-1004	964-0375	676-2335
199	198		7049-1331	185-7467	542-0820	248	3	3980-7324	0.3292	
200 4 7726/3971 258/3300 547/5575 250 5 4657/9964 72.9125 684/4468 201 5 8665-6291 294/6216 569/203 251 6 4996-6283 109/2041 687/1847 680-9220 10 335/2003 148-4988 680-9220 10 874/22930 367/2049 555/709 233 1 567/38923 181/7874 680-6022 204 1 908-0220 403/4968 535/5079 253 1 567/38923 181/7874 682-602 681/355 363/1563 218/7874 685/2982 261/2445 255 363/1563 237/707 685/3583 200-6624 700-8730 207 4 96-8210 512/3715 560/7220 257 5 7028-823 329-940 703-6142 209 6 774-9830 584-948 572-1976 259 0 770-9842 399-5373 709-6873 709-6873 709-6873 709-6873 709-6873 709-6873 709-6873 709-6873 709-6873 <	199			222-0383	544-8197	249		4319-3644	36-6208	
292 6 8403-6611 330-9132 553-0331 252 0 5332-2003 145-4608 689-6623 294 1 9080-9250 403-4066 555-7709 233 1 5673-8923 218-0791 698-6033 295 2 9419-3570 439-7882 561-2465 256 3 635-1653 224-3707 698-2980 206 3 9758-1890 476-0790 563-9843 256 4 6689-7883 220-6024 700-8736 207 4 96-8210 512-3715 506-7220 257 5 702-4423 326-9440 703-6114 208 5 435-4320 548-6632 509-4588 258 6 7367-0522 363-2457 700-8736 210 0 1112-7169 621-2465 574-9354 200 4 804-3162 243-5289 711-8268 211 1 1451-3489 657-3351 577-6732 261 2 3382-9482 472-1906 114-62438							5			684-4469
200 0 8742-2930 367-2049 555-7709 233 1 5673-8923 1817874 692-6093 205 2 9419-3570 439-7882 561-2465 255 3 651-1563 254-3707 698-2386 206 3 9758-1890 476-0790 563-9843 256 4 6689-7883 229-6624 700-8736 207 4 96-8210 512-3715 590-7220 257 5 7028-4293 32-9540 70-6114 208 5 435-4520 548-6032 509-4598 258 6 7367-0522 362-3457 70-6114 209 6 774-0850 584-9448 572-1976 259 0 770-8842 399-3373 70-90-870 211 1 1451-3489 657-5331 577-6732 261 2 8382-9482 472-1906 714-3626 212 2 178-8080 637-8331 577-6732 261 2 8382-9482 472-1906 714-3626 <td>201</td> <td>5</td> <td>8065-0291</td> <td>294-6216</td> <td>550-2953</td> <td>251</td> <td>6</td> <td>4996-6283</td> <td>109-2041</td> <td>687-1847</td>	201	5	8065-0291	294-6216	550-2953	251	6	4996-6283	109-2041	687-1847
204	202	6.	8403-6611	330-9132	553-0331	252	0	5335-2603	145-4958	689-9225
264 1 9080-9250 403-966 538-5087 254 2 6012-5243 218-0791 698-9388 206 3 9758-1890 476-0799 563-9843 256 4 6689-7838 296-624 708-8210 512-5715 560-7220 257 5 7028-4293 326-9407 708-8118 209 5 435-4550 548-6022 509-4598 258 6 7367-0522 369-3457 702-8429 290-3573 709-9870 209 6 774-0850 584-9448 772-1976 239 0 700-9842 395-3373 709-9870 210 0 1112-7169 621-2465 574-9354 200 1 8044-3162 435-8289 711-8268 211 1 1451-3489 657-5381 577-6732 261 2 8382-9482 472-1206 714-6623 212 217-89-6869 693-8298 580-5110 262 3 8721-8802 741-73-73-73 741-73-73-73 741-73-73-73 741-73-73-73 741-73-73-73 741-73-73-73-73 741-73	203	0	8742-2930	367-2049	555-7709	253	1	5673-8923	181-7874	692-6603
205 2 9419-3570 439-7882 561-2465 256 3 6351-1563 254-3707 698-1338 206 3 9758-1890 476-0790 563-9843 256 4 6689-7883 290-6624 700-8736 207 4 96-8210 512-5715 590-4520 257 5 7028-4203 326-9540 706-6114 209 6 745-650 584-9648 572-1976 259 0 7700-8842 399-5373 709-9870 210 0 1112-7169 621-2465 574-9354 200 1 8044-3162 338-8288 711-8268 211 1 1451-3489 657-5381 577-6732 261 2 832-9482 472-1206 714-6626 212 2 178-9809 693-8298 580-4110 262 3 821-5802 508-4122 717-302 213 3 2126-6129 730-1314 583-1488 263 4 9660-2122 544-7039 720-0381 </td <td>204</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	204	1								
207 4 96.8210 512.5715 566.7220 257 5 7028.4223 329.9540 703.6114 208 5 435.4320 548.6632 509.4588 258 6 736.6632 369.2457 706.3422 209.6733 709.66812 399.5373 709.0870 210 0 1112.7169 621.2465 574.9554 200 1 8044.3162 438.8289 711.8248 211 1 1451.3489 657.5381 577.6732 261 2 8382.9482 472.1206 714.5626 212 2 1789.9806 693.8298 580-4110 262 3 8721.5802 568.4122 717.3663 213 3 2128.6129 730.1214 583.488 263 4 9606.2122 544.7039 720.0381 214 4 2467.2449 766.4131 585.8865 264 5 938.8441 580.9257 725.5137 216 5 3144.5088 838.9664 591.3621 266 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>698-1358</td>										698-1358
207 4 96.8210 512:5715 500:7220 257 5 7028:4233 329:9540 706:3482 208 5 435:4320 584:9648 572:1976 258 6 737:0522 367:2457 706:3482 210 0 1112:7109 621:2465 574:9354 200 1 8044:3162 339:5373 709:0870 211 1 1451:3489 657:5381 577:6732 261 2 838:29482 472:1206 714:0652 212 2 1789:9809 693:8298 580:4110 262 3 8721:5802 508:4122 717:3003 213 3 2128:6129 730:1314 583:4888 263 4 9600:2122 544:7039 720:0381 214 4 2467:2449 766:4131 585:8805 264 5 9398:8441 580:955769 720:7759 216 6 3144:5088 838:9664 591:3621 266 0 76:1081 653:5788 728:2515		3						6689-7883	290-6624	700-8736
209 6 774-0850 584-9488 572-1976 239 0 7705-0842 399-5373 709-0870 210 0 1112-7169 621-2465 574-9354 200 1 8044-3162 435-8289 711-8268 211 1 1451-3489 657-5381 577-6732 261 2 8382-9482 472-1206 714-5625 212 2 1789-9809 693-8298 580-4110 262 3 8721-5802 568-4122 717-3603 213 3 2128-6129 730-1314 583-1488 263 4 9060-2122 544-7039 720-0381 214 4 2467-2449 766-4131 885-8865 264 5 9398-8441 580-955 722-775-5137 216 6 3144-5088 838-9064 591-3621 266 0 76-1081 633-5788 728-2515 217 0 3483-1408 875-2880 594-9999 267 1 414-7401 689-370 736-4619	207	4	96-8210	512-3715	566-7220		5.	7028-4203	326-9540	703-6114
209 6 774-0850 584-9488 572-1976 239 0 7705-0842 399-5373 709-0870 210 0 1112-7169 621-2465 574-9354 200 1 8044-3162 435-8289 711-8268 211 1 1451-3489 657-5381 577-6732 261 2 8382-9482 472-1206 714-5626 212 2 1789-9809 693-8298 580-4110 262 3 8721-5802 568-4122 717-3603 213 3 2128-6129 730-1214 583-1488 263 4 9060-2122 544-7039 720-0381 214 4 2467-2449 766-4131 585-8865 264 5 9398-441 580-955 722-7759 216 6 3144-5088 838-904 591-3621 266 0 76-1081 633-5788 728-25-15 216 1 3483-1408 875-2880 594-999 267 1 414-7401 689-8705 739-9983 <	208	(5)	435-4520	548-6632	560-4598	258	6	7367-0522	363-2457	706-3492
210 0 11127169 621·2465 574·9354 200 1 8044·3162 435·8289 711·8268 211 1 1451·3489 657·5381 577·6732 261 2 8382·9482 472·1206 714·5626 212 2 178·9800 693·8298 580·4110 262 3 8721·5802 508·4122 717·3063 213 3 2128·6129 730·1214 583·1488 263 4 960c-2122 544·7039 720·0381 214 4 2467·2449 766·4131 585·865 264 5 9398·8441 580·9955 722·7769 216 6 3144·5088 838·9064 501·3621 266 0 76·1081 63·5788 728·2513 216 6 3144·5088 835·9860 501·3621 266 0 76·1081 63·5788 728·2513 216 6 3144·5088 835·9368 504·4099 267 1 444·7401 889·3055 730·9893 <td>209</td> <td></td> <td>774-0850</td> <td>584-9548</td> <td>572-1976</td> <td>259</td> <td>0</td> <td>7705:6842</td> <td>399-5373</td> <td></td>	209		774-0850	584-9548	572-1976	259	0	7705:6842	399-5373	
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TABLE LIV-A-concld.

Days or 24 Hours Each-

No.	Week- day.	a.	6.	Cu	No.	Week- day.	a.	b.	e.
1	2	3	4	5	1	2	3	4	5
291	4	8541-9078	560-8701	796-6962	341	5	5473-5070	375-4526	933-5856
292	.5	8880-5397	597-1617	799-4340	342	- 6	5812-1390	411-7442	936-3233
293	6	9219-1717	633-4534	802-1718	343	0	6150-7710	448-0359	939-061
294	0	9557-8037	669-7450	804-9096			6489-4030	484-3275	1.5.6.111.000.01
295	1	9890-4357	706-0367	807-6473	344 345	1 2	6828-0350	520-6192	941-7989
296	2	235-0677	742-3283	810-3851	346	3	7166-6670	556-9108	947-2743
297	3	573-6997	778-6200	813-1229	347	4	7505-2989	593-2025	950-012:
298	4	912-3317	814-9116	815-8607	348	5	7843-9309	629-4941	952-750
299	5	1250-9636	851-2033	818-5985	349	6	8182-5629	665-7858	955-487
300	6	1589-5956	887-4949	821-3363	350	0	8521-1949	702-0774	958-225
301	0	1928-2276	923-7866	824-0741	351	T	8859-8269	738-3691	960-963
302	1	2280-8596	960-0782	826-8118	20,000		THE PARTY OF THE P	CONTRACTOR DO CONTRACTOR	
303	2	2605-4916	996-3699	329-5496	352	2	9189-4589 9537-0909	774-6607 S10:9524	963-701
301	3	2914-1236	32-6615		353	3			The state of the s
		3282/7556	STEPS CONTRACTOR	832-2874	354	*	9875-7228	847-2440	969-176
305	4	3254,1990	68-9532	835-0252	355	. 6	214-3548	883-5357	971-914
306	5	3621-3875	105-2448	837-7630	356	6	552-9868	919-8273	974-652
307	6	3960-0195	111-5365	840-5008	357	0	891-6188	956-1190	977-390
208	0	4298-6515	177-8281	843-2386	358	1	1230-2508	992-4106	980-128
=309	1	4637-2935	214-1198	845-9764	359	2	1568-8828	28-7023	982-865
310	2	4975-9155	250-4114	848-7141	360	3	1907-5147	64-9939	985-603
311	3	5314-5475	286-7031	851-4519	361	4	2246-1467	101-2856	988-341
312	4	5653-1794	322-9947	854-1897	362	. 5	2584-7787	137-5772	991-079
313	5	5991-8114	359-2864	856-9275	363	6.	2923-4107	173-8689	993-816
314	6	6330-4434	395 5780	859-6653	364	0	3262-0427	210-1605	996-554
315	ő	6669-0754	431-8697	862-4031	365	1	3600-6747	246-4522	999-292
316	1	7007-7074	468-1613	865-1409	366	2	3939-3067	282-7438	2.030
317	2	7346-3394	504-4530	867:8787	367	3	4277-9386	319-0355	4.708
318	3	7084-9714	540-7446	870-6165	368	4	4616-5706	355-3271	7.500
319	4	8023-6033	577-0363	873-3543	369	5	4955-2026	391-6188	10-24:
320	5	8362-2353	613-3279	876-0020	370	6	5293-8346	427-9104	12-98
321	6	8700-8673	649-6196	878-8298	371	0	5632-4666	464-2021	15-719
399	0	9039-4993	685-9112	881-5676	372	1	5971-0986	500-4937	18-45
323	ĭ	9378-1313	722-2029	884-3054	373	2	6309-7306	536-7854	21.19
324	2	9716-7633	758-4945	887-0432	374		6648:3625		
325	3	55-3953	794-7862	889-7810	375	3	6986-9945	573-0770 609-3687	23·93 26·67
326	1 4	394-0272	831-0778	892-5188	376	5	7325-6265	645-6603	29-40
327	5	732-6592	867-3695	895-2565	377	6	7664-2585		32-14
328		1071-2912	903-6611	897-9943	378	0	8002-8905	681-9520 718-2436	31.88
329		1409-9332	939-9528	900-7321	379	1	8341-5225	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
330		1748-5552	976-2444	903-4699	389	2	8680-1545	754-5353 790-8269	37-62 40-35
331	2	2087-1872	12-5361	906-2077			0010 7001	007.1100	- Amilian
332		2425-8192	48-8277	908-9455	381	- 3	9018-7864	827-1186	43/09
333		2764-4511	85-1194	911-6833	382	4	9357-4184	863-4102	45-83
334		3103-0831	121-4110	914-4211	383	5	9696-0504	899-7019	48-57
335		3441-7151	157-7027	917-1588	384 385	6	34-6824 373-3144	935:9935 972-2852	51:31
336	0	3780-3471	193-9943	919-8966	-		2504		1
337		4118-9791	230-2860	922-6344			1	1	1
338		4457-6111		The second secon					1
339	3	4796-2431	266-5776 302-8693	925-3722			1	1 -	
340				928-1100					1
920	1 1	5134-8750	339-1609	930-8477					1

TABLE LIV-B.

INCREASE OF a, b, c IN HOURS, MINUTES AND SECONDS.

(a in 10,000ths of circle, b and c in 1,000ths.)

These Tables correspond to Table V, Indian Calendar, for hours and minutes.

Increase in 1 hour—a, 14·109666059 ; b, 1·512150744 ; c, 0·114074481.

Increase în 1 minute—a, 0-235161101 ; b, 0-025202533 ; c, 0-001901220.

Increase in 1 second—a, 0-003919352 ; b, 0-000420042 ; c, 0-000031687.

Hours.

No.	n.	1.	6	No.	it-	b.	e,	No.	n.	b.	c.
1	14-1007,	1·5122	0·1141	9	126-9870	13-6049	1-0267	17	239-8643	25-7066	1-9393
2	28-2193	3·0243	0·2281	10	141-0967	15-1215	1-1407	18	253-9740	27-2187	2-0533
3	42-3290	4·5365	0·3422	11	155-2063	16-6337	1-2548	19	268-0837	28-7309	2-1674
4	56-4387	6·0486	0·4563	12	169-3160	38-1458	1-3689	20	282-1933	30-2430	2-2815
5	70-5483	7·5608	0·5704	13	183-4257	19-6580	1-4830	21	296-3030	31-7552	2-3956
6	84-6580	0·0729	0·6814	14	197-5353	21-1701	1-5970	22	310-4127	33-2673	2-5096
7	98-7677	10·5851	0·7985	15	211-6450	22-6823	1-7111	23	324-5223	34-7795	2-6237
8	112-8773	12·0972	0·9126	16	225-7547	24-1944	1-8252	24	338-6320	36-2916	2-7378

MINUTES.

No.	a.	b.	c.	No.	ff.	b.	fe.	No.	g.	b.	c.
1	0-2352	0-0252	0.0019	21	4-9384	0-5293	0-0399	41	9-9416	1-0333	0-0780
	0-4703	0.0504	0:0038	90	5-1735	0.5545	0.0418	42	0.8768	1-0585	0-0799
3	0.7055	0.0756	0.0057	20	5-4087	0.5797	0.0437	43	10-1119	1.0837	0.0818
4	0.9406	0.1008	0.0076	24	5-6439	0.6049	0.0456	-44	10:3471	1-1089	0.0837
5.	1.1758	0.1260	0.0095	25	5-8790	0.6301	0:0475	45	10-5822	1-1341	0.0856
6	1-4110	0.1512	0-0114	26	6-1142	0-6553	0-0494	46	10:8174	1-1593	0.0875
7	1-6461	0-1764	0.0133	27	6-3493	0.6805	0.0513	*47	11-0526	1-1845	0-0894
8	1.8813	0.2016	0.0152	28	6:5845	0.7057	0.0532	48	11-2877	1-2097	0.0913
. 9	2-1164	0-2268	0.0171	29	6-8197	0.7309	0-0551	49	11-5229	1.2349	0.0932
10	2 3516	0.2520	0.0190	30	7-0548	0.7561	0-0570	50	11-7581	1.2601	0.0951
11	2-5868	0.2772	0.0209	31	7-2900	0.7813	0-0589	51	11-9932	1.2853	0-0970
12	2-8210	0.3024	0.0228	32	7:5252	0.8065	0.0608	52	12-2284	1:3105	0.0989
13	3-0571	0-3276	0.0247	33	7-7603	0.8317	0.0627	.53	12-4635	1.3357	0.1008
It	5-2923	0.3528	0.0256	34	7-9955	0.8569	0.0846	54	12-6987	1.3609	0-1027
15	3-5274	0.3780	0-0285	35	8-2306	0.8821	0.0665	55	12-9339	1.3861	0-1046
16	3:7626	0.4032	0-0304	:36	8-1658	0.9073	0.0684	-56	13-1690	1-4113	0-1065
17	3-9977	0-4284	0.0323	37	8-7010	0.9325	0.0703	57	13-4042	1-4365	0.1084
18	4-2329	0-4536	0.0342	38	8-9361	0-9577	0.0722	-58	13-6393	1-4617	0.1103
19	4-4681	0.4758	0-0361	39	9-1713	0.9829	0.0741	59	13-8745	1-4869	0-1122
20	4.7033	0.5041	0.0380	10	9-4064	1.0081	0-0760	60	14-1007	1.5122	0.1141

TABLE LIV B-contd.

SECONDS.

No.	ii.	6.	e.	No.	5.65	- Ba	C.	No.	d.	b,	ē.
	0-0039	0-0004	0-0000	21	0.0823	0.0088	0-0007	41	0-1607	0-0172	0-0013
100	0-0078	0:0008	0.0001	22	0.0862	0.0092	0.0007	63	0-1646	0.0176	0.0013
2	0.0118	0.0013	0.0001	93	0-0901	0.0097	0.0007	43	0.1685	0.0181	0.0014
3	0-0157	0.0017	0.0001	24	0.0041	0.0101	0.0008	44	0.1725	0.0185	0.0014
4 5	0-0196	0.0021	0.0002	25	0.0980	0.0102	0.0008	4.5	0-1764	0.0189	0.0014
- 6	0-0235	0-0025	0.0002	26	0-1019	0-0100	0.0008	16	0-1803	0-0193	0.0015
7	0.0274	0.0029	0.0002	27	0.1058	0.0113	0.0009	47	0.1842	0-0197	0.0013
	17A3653+0156464	0.0034	0.0003	28	0-1097	0.0118	0.0000	48	0.1881	0.0202	0.001
8	0.0314	0.0038	0.0003	20	0-1137	0.0120	.0-0000	49	0.1920	0.0206	0.001
10	0-0353 0-0392	0-0042	0.0003	30	0-1176	0.0126	0.0010	50	0-1960	0.0210	0.0010
11	0.0431	0.0046	0.0003	.31	0-1215	0.0130	0.0010	51	0-1999	0-0214	0.001
12	0.0470	0.0050	0.0004	32	0.1254	0.0134	0.0010	52	0.2038	0-0218	0.001
13	0.0510	0.0055	0.0004	33	0-1203	0.0139	0.0010	53	0.2077	0-0223	0.001
14	0.0549	0.0059	0.0004	34	0-1333	0-0143	0-0011	54	0.2116	0.0227	0.001
15	0.0588	0.0063	0.0005	35	0.1372	0.0147	0-0011	55	0-2150	0.0231	0.001
16	0-0627	0-0067	0.0005	36	0-1111	0-0151	0-0011	56	0.2195	0-0235	0.001
17	0-0666	0.0071	0.0005	37	0:1450:	0.0155	0.0012	377	0.2234	0-0239	0.001
18	0-0705	0.0076	0.0006	38	0-1489	0-0150	0.0012	58	0.2273	0.0244	0.001
19	0.0745	0-0080	0.0006	39	0+1520	0-0164	0.0012	59	0-2312	0.0248	0.001
20	0.0784	0-0084	0.9006	40	0-1568	0.0168	0-0013	60	0.2352	0.0252	9-001

TABLE

THE MOON'S

Corresponding to " Equation b"

For either of the mean anomaly values given in cols. 2s, 2b, the equation and difference are as stated in cols. 2, 4. The equation col. 3, from "Arg. b" 0 to 500 or 0" to 180", is the moon's greatest equation of the centre plus the actual equation, in 10,000ths of circle. (For the 24 base equations in degrees, etc., see Table LIX.)

Base Eqn. No.	Arg. b.	"Equation b."	Diff.	Arg. b.	Base Eqn. No.	Arg. b.	" Equation b."	Diff.	Arg. b.
1	2a	3	4	26	1	2a	3	4	26
0	0-0 2-083	139-8717 141-7004	3	500-0 497-916	12	125-0 127-083	238-6631 239-9153)	375-0
	4.16	143-5291	> 1-8287	495-83		129-16	241-1676	1-2523	372-916 370-83
	6.25	145-3578		493-75		131-25	242-4199	12000	368-75
	8.3	147:1865	2 - 1	491-6	200	133-3	243-6722)	366-6
1	10-416 12-5	149-0152 150-8357		489-583 487-5	13	135-416 137-5	244-9244 246-0919		364-583
	14-583	152-6563	> 1-8206	485-416		139-583	247-2593	> 1.1674	362-5 360-416
	16-6	154-4769	1000000	483-3		141 6	248-4268	10.000.00	358-3
	18:75	156-2075	2	481-25	144	143-75	249-5942]	356-25
2	20-83 22-916	158-1180 150-9224		479-16 477-083	14	145-83 147-916	250-7616 251-8311	1	351-16
100	25-0	161-7267	> 1.8043	475-0		150-0	252-9006	1-0695	352-083 350-0
	27-083	163-5310	J = 100000	472-916		152-083	253-9701	Contract Contract	347-916
200	29-16	165-3553	1	470-83	144	154-16	255-0396		345-83
3	31·25 33·3	167-1397 168-9196		468-75 466-6	15	156-25 158-3	256-1090 257-0805	1	343-75
	35-416	170-6995	> 1-7799	404-583		160-416	258-0520	> 0-9715	341-6 339-583
	37:5	172-4795	1 1 1 1 1 1	462-5		162-5	259-0235	0.0110	337-5
100	39-583	174-2594	Į,	460-416	2011	167.583	259-9950	U }	335-416
4	41.6	176-0393		458-3 456-25	16	106-6	260-9664		333 3
	43:75 45:83	177-7868 179-5342	2 1-7474	454-16		168-75 170-83	261-8322 262-6980	0.8658	331-25 329-16
	47-916	181-2816		452-083		172-916	263-5638	(travas	327-083
	50-0	183-0291		450-0	100	175-0	264-4296		325-0
- 5	52-083	184-7765	1	447-916	17	177-083	265-2953	1	322 916
	54-16 56-25	186-4833 188-1901	> 1.7068	443-75		179-16 181-25	266-0541 266-8129	0.7588	320-83
	58-3	189-8969	1 1000	441-6		183-3	267-5717	> 0.1008	318-75 316-6
	69.416	191-6036		439-583		185-416	268-3305		314-583
- 6	62-5	193-3104	n	437-5	18	187-5	269-0893	1	312-5
	64-583 66-6	194-9766 196-6427	1-6662	435-416 433-3		189-583 191-6	269-7332 270-3772	0-6440	310-416
	68-75	198-3080	1.00002	431-25		193-75	271 0211	0.0440	308-3 306-25
	1 70-83	199-9750	U	429-16		195.83	271-6651		304-16
7	72-916	201-6412	n	427 083	19	197-916	272-3090	1	302-083
	75-0 77-083	203-2586 204-8761	1-6175	425-0 422-916		200-0	272-8417 273-3745	0.700=	300-0
	79-16	206-4936	10110	420-83		204-6	273-9072	0-5327	297-916 295-83
	81-25	208-1110		418-75	7.00	206-25	274-4390		293-75
8	83.3	209-7285	D .	416-6	20	208-3	274-9726	1	291-6
	85-416 87-5	211-2808 212-8331	1.5523	414-583 412-5		210-416 212-5	275-3879 275-8033	0.4350	289-583
	89-583	214-3854	1 0020	410-416		214-583	276-2186	0-4153	287·5 285·416
	91-6	215-9377	U	408-3	1	216-6	276-6339		283-3
9	93.75	217-4900		406-25	21	218-75	277-0492	1	281-25
	95·83 97·916	218-9773 220-4646		404-16 402-083		220-83 222-916	277-3513	A more	279-16
	100-0	221-9519		400-0		225-0	277-6534 277-9554	0.3021	277-083
	102-083	223-4393	IJ	397-916		227-083	278-2575		275·0 272·916
10		224-9266		395-83	22	220-16	278-5595	K	270-83
	106-25 108-3	226-3408		393-75		241-25	278-7391	2000	268-75
	110-410		1.4142	389-583		233-3 235-416	278-9188 279-0084	> 0:1706	266-6
	112-5	230-5835	J.	387-5	-	237-5	279-2780		264-583 262-5
11	114-583			385-416	23	239-583	279-4576	K	260-416
	116-6	233-3308 234-6638		383-3 381-25		241-6	279-5147		258-3
	120-83	235-9969		379-16		243-75 245-83	279-5719 279-6290	0.0571	256-25
	122-916			377-083		247-016	279-6290		254-16 252-083
	1	The second second		12000000	24	250-0	279-7433	10	250-0

LV.

" EQUATION b"

in Table VI, "Indian Calendar."

The equation, col. 3, from "Arg. b" 500 to 1000, or 180° to 360°, is the moon's greatest equation of the centre minus the actual equation, stated in 10,000ths of the circle.

Base Equ. No.	Arg. b.	"Equatio	Diff.	Arg. b.	Base Eqn. No.	Arg. h.	"Equation b."	Diff.	Arg. b.
1	2a	3	*	26	1 -	2a	3	4	25
0	500-0	139-8717	1	1000-0	12	625-0	41-0802)	875-0
	502-083	138-0429		997-916		627-083	39-8280	1	872-916
	504-16	136-2142	> 1-8287	995-83		629-16	38-5757	> 1-2523	870 83
	506-25	134-3855	1	993-75		631-25	37-3234	100000000000000000000000000000000000000	868-75
	508-3	132-5568)	991-6		633-3	36:0711)	866 G
1	510-416	130-7281	1	989-583	13	635-416	34-8188	1	864-583
	512-5	128-9076		987.5	1	637-5	33-6514		862-5
	514-583	127-0870	> 1.8206	985-410		639-583	32-4840	≥ 1·1674	860-416
	516-6	125-2664		983-3		641-6	31-3165		858-3
140	518-75	123-4458	1	981-25	14	643-75	30-1491	2	856-25
2	520-83	121-6253		979-16	14	645-83	28-9817		854-16
	522-916	119-8209	Page 1	977-083	1	647-916	27-9122	1 1000	852-083
	5254)	118-0166	≥ 1-8043	975-0		050-0 052-083	26-8427	> 1-0695	850-0
	527-083	116-2123		972-916 970-83		654-16	25 7732	A COLUMN	847-916
3	529-16	114:4080	1		15	656-25	24-7037	2	845-83
- 0	531-25	112-6036 110-8237		966-6	1999	658-3	23-6343 22-6628		843-75
	535-3 535-416	109-0438	1 7 7000	964-583		660-416	21-6913	0.9715	841-6
	537-5	107-2638	≥ 1.7800	962-5		662-5	20-7198	2 0.0710	839-58 837-5
	539-583	105-4839		960-416		664-583	19-7483		835-41
:4.1	541-6	103-7040	K	958-3	16	666-6	18-7769	3	833-3
1000	543-75	101-9565		956-25		668-75	17-9111		831-25
	545 83	100-2091	2 1:7474	954-16		670-83	17-0453	> 0.8658	829-16
	547-916	98-4617	(Links	952-083		672-916	16-1795	0.0000	827-08
	550-0	96-7142		950 0	- ma	675-0	15-3137		825-0
	552-083	94-9668	3	947-916	17	677-083	14-4480	<	822-91
-	554-16	93-2600	IV.	945-83		679-16	13-6892		820-83
	556-25	91-5532	> 1.7068	943-75		681-25	12-9304	> 0.7588	818-75
	558-3	89-8464	C ALTONO	941-6		683-3	12-1716	L. COLORS	816-6
	560-416	88-1397		939-583		685-416	11-4128		814-58
6	562-5	86-4329	K	937-5	18	687-5	10-6540	15	812-5
	564-583	84-7667		935:416		689-583	10-0101		810-41
	566-6	83-1006	≥ 1.6662	933-3		691-6	9-3661	5 0-6440	808-3
	568-75	81-4344	1	931-25	THE	693-75	8-7222	177.12-101.15	806-21
1,44	570-83	79-7683	J	929-16	20	695-83	8-0782		804-16
7	572-916	78-1021		927-083	19	697-916	7-4343	15	802-08
	575-0	76-4847	I market	925-0		700-0	6-9016	The second	800-0
	577-083	74-8672	2 1-6175	922-916		702-083	6-3688	> 0.5327	797-91
	579-16	73-2497		920-83		704-6	5-8361		795-83
8	581-25	71-6323	12	918-75	20	706-25	5.3034		793-76
	583-3	70-0148		916-6		708-3	4:7707		791-6
	585-416	68-4625	1	914-583		710-416	4-3554	-	789-58
	587-5	66-9102	1.5523	912-5		712-5	3-9430	0-4153	787-5
	589-583	65-3579	11	910-416		714-583	3.5247		785-41
9	591-6	63-8057	K	908-3	21	716-6	3-1094	2	783-3
	593.75	62-2533		900-25	100.5	718-75	2-6941	1	781-21
	597-916	CARL CARLOTTE	14873	904-16	HC.	720-83 722-916	2-3920	0.3021	779-16
	600-0	59:2787	1.4912	902-083		725 0	2-05-9	≥ 0·3021	777-08
	602-083	56-3040		897-916	-		1-7879	1	775-0
10	604-16	54-8167	K	895-83	- 99	727-083 729-16	1.4858	1	770-83
	606-25	53-4025		893-75		731-25	1-1838		768-71
	608-3	51-9883		891-6		733-3	0.8245	0-1796	766-6
	610-416	50-5741	2 11/2	889-583	1	735-416	0-6449	1	764-58
06	612-5	49-1598		887-5		737-5	0-4653		762-5
- 11	614-583	47:7456		885-416	23	739-583	0.2857	K	760-4
	616-6	46:4125		883-3	1,50	741-6	0.2286		758-3
	018-75	45-0795		881-25		743-75	0.1714	0-0571	756-2
	620.83	43:7464		879-16		745-83	0-1143	= 0.00000	754-1
	622-916	42.4133		877-033		747-916	0-0571		752-08
1111		222	12	DI TORRESON	9.4	750-0	0-0	150	750-0

TABLE THE SUN'S

Corresponding to " Equation e"

For either of the mean anom, values given in cols. 2s or 2s the equation and difference are as stated in cols. 3, 4. The equation, col. 3, from "Arg. 5" 0 to 500 or 0" to 180", is the Sun's greatest equation of the centre missas the actual equation in 10,000 the of circle. (For the 2d base-equations are Table XLVII above, Vol. XII; also Prof. Jacobi's Table XXIV, Epig. Ind. 1, p. 542.)

Eqn. No.	Arg. c.	Equation (.	Diff.	Arg. c.	Base Eqn, No.	Arg. c.	Equation e.	Diff	Arg. c.
1	а	3	4	25	1	2a	3	4	26
Ü	0.0	60-4244	Y	500-0	12	125-0	17-6985	1	375-0
	2.083	59-6335	1	497:916	42	127-083	17-1564	1	372-916
7 1 1 1 1	4-16	58-8426	· 0.7909	495-83		129-16	16-6143	> 0.5421	370-83
	6-25 8-3	58:0517		493-75		131-25	16-0722		368:76
		57-2608	2	491-6		133-3	15-5301)	366-6
1	10:416 12:5	*56-4699 55-6825	1	489:583	13	135-416	14-9880	1	364-583
100	14-583	54-8951	0.7874	487·5 485·416		137-5 139-583	14-4861	l nenre	362-5
77	16-6	54-1078	1 0 1014	483-3		141-6	13-9842 13-4823	> 0.5010	360-416 358-3
	18:75	53-3204	1	481-25		143.75	12.9805		356-25
2	20.83	52-5330	1	479-16	14	145-83	12-4786	4	354-16
400	22-916	51-7527	1 = 0.000	477-083	673	147-916	12 0181		352-083
	25-0	50-9723	> 0.7804	475-0		150-0	11:5576	> 6-1605	350.0
	27-083	50-1920	4	472-916	diam'r.	152-083	11-0971		347-916
3	29-16 31-25	49-4116 48-6313	1	470-83	- 1	154-16	10-6367	1	345 83
	33:3	47:8615		468-75 466-6	15	156-25 158-3	10-1762		343-75
1977	35416	47-0916	> 0.7698	464-583	100	160-416	9-7579 9-3396	0.000	341-6
90175	37-5	46-3218	0.000	462-5		162-5	8-9213	> 0.4183	339-383 337-5
ALC: U	39-583	45-5520		460-416		164-583	8-5030		335-416
4	41-6	44-7822	1	458-3	16	166 6	8-0847	5	333-3
100	43.75	44 0265	1 anne	450-25		168-75	7:7121		331-25
31 12	45.83	43-2707	> 0.7857	454-16	100	70.83	7:3395	> 0-3726	329-16
92-	47-916 50-0	42:5150 41:7593	4 - 9 14	452-083		172-916	6-9669	1	327-083
5 -	52-683	41-0035	3	450-0 447-916	17	175-0	0.5943	2	325-0
	54:16	40-2653		445-83	14	177-083	0:2217 5:8948		322-916
	56-25	39-5272	0.7382	443-75	8	181-25	5:5679	0-3266	320-83
	58-3	38-7890		441-6		183.3	5.2410	0.0260	318-75 316-6
11 2 1	60-416	38-0508)	439-583		185-416	4:9141		314-583
6	62-5	37-3127		437-5	18	187-5	4-5872	1	312-5
0.00	64-583 66-6	36-5921	0.7206	435-416		189-583	4-3095		310-416
	68-7h	35-8715 35-1509	> 0.7200	433-3 431-25		191 6	4-0318	> 0-2777	308-3
	70-83	34-4303		429-16		193:75 195:83	3:7541 3:4764		306-25
7	72-916	33-7097	1	427-083	19	197-916	3:1987	3	304-16
The state of	75:0	33-1012		425-0	447	200-0	2-9703		302-083
	77-083	32-3107	S 0.6995	422-916		202-083	2-7418	0.2285	297-916
	79-16	31-6112	100	420.83		204-16	2-5133		295 83
8	81-25	30-9117	4	418:75	1000	206-25	2.2848		293-75
	85-416	30-2122 29-5408		416-6 414-583	20	208-3	2.0563		291-6
	87.5	28-8694	6-6714	412-5		210-416 212-5	1 8771	0.1793	289-583
	89-583	28-1980	1000	410-416	4	214-583	1.5185	F. 07.15103	287-5 285-416
(1961)	91-6	27-5267	J	408.3	1 100	216-6	1-3393		283-3
9	93-75	26.8553		406-25	21	218-75	1.1600	1	281.25
Story 2	95-83	26-2120	Constitution of the last	404-16		220-83	1:0299		270-16
CONT.	97-916 100-0	25-5688 24-9255	> 6-6133	400-0		222-916	0.8999	> 0:1301	277-083
100	102-083	24-2822		397-916		225-0	0.7698	200	275-0
10	104-16	23-6360	3	395-83	22	227-083 229-16	0-6397	{	272-916
	106-25	23-0274	F-warmen and	393-75	20	231-25	0.5097		270-83
	108-3	22-4157	> 0.6116	391-6		233-3	0.3550	0.0773	268-75 266-6
	110-416	21-8041	10000	389-583		235-416	0.2777	-	264-583
22	112-5	21-1925	2	387-5	780	237-5	0.2004		262-5
11	114:583 116-6	20-5808		385-416	23	239-583	0.1230	1	260-416
- 8	118-75	10-4279	0-5765	383·3 381·25		241-6	0.0984		258-3
Personal AV	120-83	18-8514	1	379-16		243-75 245-83	0.0738	> 0.0246	256-25
	122-916	18:2750		377-083		247-916	0-0492		254-16
		The second secon	-		24	250-0		2	252-083

LVI.

"EQUATION C"

in Table VII, "Indian Calendar."

From "Arg. c" 500 to 1000 or 180° to 360° the equation (col. 3) is the Sun's greatest equation of the centre plus the actual equation, stated in 10,000ths of the circle.

Base Eqn. No.	Arg. c.	Equation C-	Diff.	Λ rg. e .	Base Equ. No.	Arg. c.	Equation c.	Diff.	Arg. c.
1	2a	3	4	24	1	2a	3	4	25
0	500-0	60-4244	2	1000-0	12	625-0	103-1503	2	875-0
2.00	502-083	61-2153		997-916	7500	627 083	103/6924	1	872-916
	504-16	62-0062	> 0.7909	095-83		629-16	104-2345	> 0.5421	870-83
	506-25	62-7971	- 0.000	993-75		631-25	104-7768		868-75
	508-3	63-5880		991-6	420	633/3	105-3187	1	866-6
1	510-416	64-3789	5	989-583	13	035-416	105-8008	7	864-583
	512-5	65-1662		987-5		637-5	106-3627		862.5
	514-583	65-9536	> 0:7874	983-416		639-583	106 8645	> 0.5019	860-416
	516-6	66-7410		983-2		041 6	107-3664		858-3
	518.75	67-5284)	981-25	the server of	643-75	107-8683	12	856-25
2	520-83	68-3158	1	979-16	14	645.83	108-3702	3.	854-16
	522-916	69-0961	No.	977 083		647-010	108-8307	0.4886	852-083
	525-0	69-8765	> 0.7804	975-0		650-0	109-2912	\$ 0.4605	850-0
	527-083	70-6568	1	972:916		652-083	109-7516		847-016
	529-16	71-4372	J	970-83	1.02	654-16	110-2121	K	845-83
3	531-25	72-2175	1	968-75	.15	656-25	110-6726		843-75
	533-3	72-9873	1 salled	966-6		658-3	111-0909	0.4183	841-6 839-583
	535-416	73:7571	> 0.7698	964-583		660-416	111-5092 111-9275	5 0.0100	837-5
	537-5	74-5269		962-5		662-5	112-3458		835-416
	539-583	75-2967	2	960-416	10	664-583	112-7641	K	833-3
- 4	541-6	76-0665		958-3	+16	666-6	113-1367		831-25
	543-75	76-8223	D. Tarrey	956-25 954-16		668-75	113-5093	> 0.3726	829-16
	545-83	77 5780	> 0.7557	952-083		670.83	113-8819	6.00100	827-083
	547-916	78:3338		950-0		672-916	114-2545		825-0
No.	550.0	79-0895	1	947-916	17	675-0	114-6271	10	822-016
ō	552-083 554-16	79-8452		945-83	225	679-16	114-9540		820:83
		80-5834	0-7382			681-25	115-2809	0-3269	818-75
	556-25	81-3216	1 0 1000	943-75 941-6	O Total	683 3	115-6078		816-6
	558-3 560-416	82-0598 82-7979	1 -	939-583		685-416	115-9347		814-583
6	562-5	83-5361	K	937-5	-18-	687-5	116-2616	15	812-5
. 0	564-583	84-2567	11	935-416	-6737	689-583	116-5393	1	810-416
	566-6	84-9773	0.7206	933-3	LIB	691-6	116 8170	S 0.2777	808-3
	568-75	85-6979	I CONTRACTOR	931-25		693-75	117-0946		800-25
	570-83	86-4185		929-16		695-83	117-3723	J	804-16
77	572-916	87-1391	K	927-083	19	697-916	117-6500	15	802-083
	575-0	87-8386		925:0	111111111111111111111111111111111111111	700.0	117-8785		800-0
	577 083		0.6995	922-916		702-083	118-1070	0-2285	797-916
	579-16	89-2376		920-83	111	704-16	118-3355		795-83
	581-25	89-9371	13	918-75	1000	706-25	118-5640	1	793-75
8	583 3	90-6366	K	916 6	20	798-3	118-7924	1	791-6
	585-416		1	914-583	1 2 2 2 2	710-116	118-9717	-	789-583
	587-5	91-9793	5 0.0174	912:5		712-5	119-1510	0-1793	787-5
	589-583			910-416		714-583	119-3309	11	785-410
	591-6	93-3221	D.	908-3		716-6	119-5095	12	783-3
9	593-75	93-9935	1)	906-25	21	718-75	119-6888		781:95
	595-83	94-6367		904:16	100000	720-83	119-8188		779:16 777:083
	597-910			002-083		722-010			775:0
	600-0	95-9233		.000:0	11100	725-0	120-0790		772 916
Table 1	602-083	D400 MINERAL		897-916	2000	727-083			770 83
10	604-16	97-2098		895-83	99	729-16	120-3301		708/75
	606-25	97-8214		803-75		731-25	120-4164	0.0773	760-0
	608-3	98-4330		801-6		733-3			764-583
	610-416			889-583		785-416	120-6424		762-5
997	612-5	99-6563		887-5	1000	737-5			760:416
11	614-583			885-416	23	741-6	120-7203		758-3
	616-6	100-8444		883-3	-	743-75	120-7749		756-25
	618-75	101-4209		879-16	1 = =	745-83	120-7990		754-16
	622-916			877-083		747-916			752-063
	022.01	VIVE -19 V. 19 G		041-000	94	750-0	120-8488		750

TABLE LVII A.

VALUE OF a, b, c AT BEGINNING OF KALIYUGA CENTURIES.

Corresponding to Prof. Jacobi's Table IX B (Vol. XI above.) but framed for two days earlier in each century.

Cen- tury K. Y.	Week day.	a.	ь.	e.
42 43 44 45 46 47 48 49 50	6 5 5 5 5 5 5	49-0437 8582-3109 7454-2101 6326-1092 5198-0084 4069-9075 2941-8067 1831-7059 346-9731	626-9004 179-4088 768-2089 357-0090 945-8091 534-6091 123-4092 712-2093 264-7177	276-4176 277-0270 277-8743 277-7215 278-0688 278-4160 278-7632 279-1104 279-7109

TABLE LVII B.

INCREASE OF a, b, c for years of the Kaliyuga.

Corresponding to Prof. Jacobi's Table X Epig. Ind., Vol. XI, p. 168.

* Years of 366 days.

Year.	Week day.	u.	b. :) Cr	Year.	Week day,	er.	b.	e.
0	0	0	0	. 0	31	4	4329-9708	930-3505	999-9683
1	1	3600-6747	246-4522	999-2925	32	5	7930-6455	176-8027	999-260
*2	9	7201-3494	492-9043	998-5849	*33	- 6	1531-3202	423-2549	998-5533
	4	1140-6560	775-6482	0-6151	34	1	5470-6268	705-9987	0.5835
4	.5	4741-3307	22-1003	999-9076	35	2	9071-3015	952-4509	999-8759
5	6	8242-0054	268-5525	999-2001	36	3	2671-9762	198-9030	999-1684
*6	0	1942-6800	515-0047	998-4925	*37	4	6272-6509	445-3552	998-4609
7	2	5881-9867	797-7483	0.5227	38	- 6	211-9575	728-0990	0-4911
8	3	9482-6614	44-2007	999-8152	39	0	3812-6322	974-5512	999-7836
- 9	4	3083-3360	290-6528	999-1077	40	1	7413-3069	221-0034	999-0760
*10	- 5	6684-0107	537-1050	998-4001	*41	2	1013-9815	467-4555	998-3685
11	0	623-3174	819-8488	0-4303	42	4	4953-2882	750-1994	0.3983
12	1	4223-9921	66-3010	909-7228	43	5	8553-9629	996-6515	999-6912
*13	9	7824-6667	312-7532	999-0153	944	6	2154-6376	243-1037	998-9836
14	4	1763-9734	595-4970	1.0455	45	1	6093-9442	525-8475	1.0128
15	5	5364-6481	841-9492	0.3379	46	2	9694-6189	772-2997	0.3063
16	6	8965-3227	88-4013	999-6304	47	3	3295-2936	18-7519	999-5988
*17	0	2565-9974	334-8535	998-9229	*48	4	6895-9682	265-2040	998-8919
18	2	6505-3041	617-5973	0-9531	49	6.	835-2749	547-9479	0.9214
19	2 3	105-9788	864-0495	0.2455	500	0	4435-9496	794-4000	0-2139
20 1	4	3706-6534	110-5017	999-5380	51	1	8036-6243	40-8522	999-5064
*21	5	7307-3281	356-9539	998-8305	*52	9	1637-2989	287-3044	998-7988
22	0.1	1246-6348	639-6977	0.8607	53	- 4	5576-6056	570-0482	0.8290
23	1	4847-3094	886-1499	0-1531	54	5	9177-2803	816-5004	0-1210
24	2	8447-9841	132-6020	999-4456	55	- 6	2777-9549	62-9526	999-4140
#25	-3	2048-6588	379-0542	998-7381	•56	0	6378-6296	309-4047	998-7064
26	5	5987-9655	661-7980	0-7683	57	2	317-9363	592-1485	0.7366
27	6	9588-6401	908-2502	0.0607	58	3	3918-6110	838-6007	0-0291
28	0	3189-3148	154-7024	999-3532	59	4	7519-2856	85-0529	999-3216
#29	1	6789-9895	401-1545	998-6457	*60	5	1119-9603	331-5051	998-6140
30 1	3	729-2961	683-8984	0.6759	61	0	5059-2670	614-2489	0.6445

TABLE LVII-C.

Values of "a," "b," "c" on days from mina 1 to mêsha 2, the day of mean mêsha-samkrānti.

Corresponding to the first part of Prof. Jacobi's Table XIII (of Epig. Ind., Vol. XI, 170) but arranged for the Siddhanta-Siromani.

TABLE LVII B-contd.

Year.	Week day.	α,	b.	c.	days al from .0	Month	Week	a,	b.	c.
62	1	8659-94167	860-7011	999-9367	No. of interval Mësha.0	and day.	day.			
63	2	2260-6163	107-1532	999-2292	No.	- 1				
*64	3	5861-2910	353 6054	998-5216	4				And the second	
65	5	9800-5977	[634-3492	0.5518						-
66	6	3401-2723	882-8014	999-8443	1	2	3	4	5	6
67	0	7001-9470	129 2536	999-1368	1	1.5		1		
*68	1	602-6217	375 7057	998-4292	-		_	_	_	
69	3	4541-9283	658-4496	0.4594	29	Mina 1	4	9502-4085	874-9589	915-128
70	4	8142-6030	904-9017	999-7519	28	100	5	9841-0404	911-2506	917-866
*71	5	1743-2777	151-3539	999-0444	27	100	6	179-6724	947-5422	920-604
72	0	5682-5844	434-0977	1:0746	26	17560	0	518-3044	983-8339	923-341
73	1	9283-2590	680-5499	0.3670	25	100 Table 1	ĭ	856-9364	20-1255	926-079
74	2	2883-9337	927 0021	999-6595	24	7.0	2	1195-5684	46-4172	928-817
*75	3	6484-6084	173 4542	998-9520	23	0.000	3	1534-2004	92-7088	931-555
76	5	423-9150	456-1981	0.9822	22	4	4	1872-8324	129-0005	934 293
77	6	4054-5897	702-6502	0.2746	21	- 6	5	2211-4643	165-2921	937-030
78	- 0.	7625-2644	949-1024	999-5671	20	10	- 6	2550-0963	201-5838	939-768
*79	1	1225-9391	195-5546	998-8596	19	THE STATE OF THE S	0	2888-7283	237-8754	942-506
80	3	5165-2457	478-2984	0.8898	18	10	1	3227-3603	274-1671	945-244
81	4	8765-9204	724-7506	0.1822	17	1 13	2	3565-9923	310-4587	947-982
82	5	2365-5951	971-2027	999-4747	16	. 14	3	3904-6243	346-7504	950-719
*83	6	5967-2698	217-6549	998-7672	15	3.0	4	4243-2563	383-0420	953 457
84	1	9906-5764	500-3987	0.7974	14	9.00	5	4581-8882	419-3336	956-195
85	2	3507-2511	746-8509	0-0898	13	177	6	4920-5202	455-6253	958-933
86	3	7107-9258	993-3031	999-3823	12	10	0	5259-1522	491-9169	961-671
*87	4	708-6004	239-7552	998-6748	11	100	1	5597-7842	528-2086	964-408
88	6	4647-9071	522-4991	0-7050	10	1000	2	5936-4162	564-5002	967-146
89	0	8248-5818	768-9512	999-9974		0.1	3	0275-0482	600-7919	969-884
90	ï	1849-2565	15-4034	999-2899	9 8 7	10.00	4	6613-6801	637-0835	972-622
991	2	5449-9311	261-8556	998-5824	7	0.0	5	6952-3121	637-3752	975-359
92	4	9389-2378	544-5994	0.6126	6	0.1	- 6	7290-9441	709-6668	978-097
93	5	2989-9125	791-0516	999-9050	5	0.0	- 0	7629-5761	745-9585	980-835
94	6	6590-5871	37-5038	999-1975	4	# 26	Ĭ	7968-2081	782-2501	983-573
*95	0	191-2618	283-9559	998-4000	3	(3/9)	2	8306-8401	818-5418	986-311
96	9	4130-5685	566-6997	0.5202	2	200	3	8645-4721	854-8334	989-048
97	3	7731-2434	813-1519	999-8126	1	29	4	8984-1040	891-1251	991-786
98	4	1331-9178	59-6041	999-1051	1 3 2	Měsha 0	5	9322-7360	927-4167	994-524
*99	5	4932-5925	306-0563	998-3976	I E	1	6	9661-3680	963-7084	997-262
100	0	8871-8992	588-8001	0-4278		1, 2	0	0.0	0-0	0.0

By this Table, the a,b,c of the civil day coupled with Chaitra Sukla, I is easily found

TABLE LVIII.A.

DURATION AND COLLECTIVE DURATION OF TRUE SOLAR MONTHS; WITH INCREASE OF " a," " b," " c" AT EACH SAMERINTI.

Calculated for the year K. Y. 4500, expired, A.D. 1399-1400.

" a" in 10,000ths of circle; " b" and " c" in 1,000ths.

Lunf-solar month		Col	entie	o directle	in in d	new house	Collective duration in days hours "etc. , and adjusting	and land line		1	1	0	- 3	100		A SAR
(ending after the second of the two solar	True solar surfikrinti.	9	crease	e of a, l	sh tru	. 6, e from true Mési, each true samkranti.	increase of a, b, c from true Mesha-samkrant; to each true sankranti.	cinto to	True solar	3 4	nd tr	and increase of	of n.	Length of month preceding each true samurants and increase of a, b, c between each such samisfrants.	reen enoh	such .
nested with it).		Day Week day.	Week day.	H. M.	oć l	6	Ф.	3		Day	Day. Week	H. M.	oć .	é	4	4
-	e)	60	7	10		9	Į*	æ	-0	10	Ξ	21	Î	13	14	15
L. Chaites	(Mina-sam (of previous year)	0	1	0 0	9.	0-0	0.0	0.0	Mesha sam.	0		0	0	0.0	0.0	0.0
T. Jvěshtha	Vrishabha-sara.	30	9	21 56 45		0261-200	121-7837	81-0258	Vrishabha-sam.	30	20	21 50 45	45	467.1970	121-7837	84.6258
4. Ashidha	Mithums-sain.	62	(9)	7 25 10	_	1090-8924	261-3040	170-3896	Mithuna-sath	75	(8)	9.34	10	632-6954	139-5203	85-9638
5 Srivera	Karka-sam.	93	<u>(i)</u>	92 18	82 18	1807-6473	408-8085	257-1601	Karha-saili.	ಪ	8	14.53 42	약	707-7549	147-5645	86-5705
6. Bhadrapada	Stinha-sam.	125	9	10 0.4	11	9471-1428	551-7210	343.3753	Simha-sarit.	13	(8)	11 46 46	9	663-7955	142-8534	86-9152
7 Asvina	Kanyā-sain.	156	<u>@</u>	11 32 47	-	2989-2051	678-9569	128-4122	Капуй-яші.	31	(8)	1 37	23	518-0623	127-2350	85-0360
8. Kārtaila.	Tulif-sam.	186	(3)	22 59 48	-	3310-0243	185-0209	511-8510	Tulk-sam.	30	99	11 27	4	320-2191	108-0840	83-4397
9 Mängasina	(Vriffehilta-sam.	216	(9)	20 57 1	12 34	3440-1530	870-6805	593-7525	Vrischika-sam	99	Ξ	21 57	75	130-1288	85-6596	81-9006
19. Pansha	Dhanus-sain	246	3	9 9 3	34 34	3432-7047	941-5957	674-5407	Dhanus-sam.	29	3	12 13 12 13	21	9999-5517	70-9159	80-7882
11. Mitcha	Makara-sam	275.	(E)	17 16 58	-	3367-0408	6-3372	754-8633	Makara-saza	93	3	00	55	9034-9451	64-7415	80-3-26
12. Philippen .	Kumbha sam.	302	3	3 46 4	45 333	3336-0701	74-6663	835-4563	Kumbha-sarii.	8	3	10 29	29 42	9908-4203	68-3291	80-3930
1. Chaitra tof	Mina-sam.	334	9	22 36	17	3421-9886	150-5878	916-9994	Minn-saft.	65	3	18 49	20	85-0185	80-9215	81-5431
(an)	Mēsha-sam. (of following year)	365	3	0 13	98 0	3688:1894	255-8304	1000-0	Mesha-sarh. (of following genr).	30	9	7 36	21	266-2008	100-2426	83.0008

TABLE LVIII-B.

VALUE OF " c" AND OF " EQUATION C" AT THE SEVERAL TRUE SAMERANTIS.

Correct for K. Y. 4500, A.D. 1399-1400.
"c" in 1,000ths of circle; " equation c" in 10,000ths.

Samkranti.	c.	Equation C
Mésha-samk	274-4058	0.7327
Vrishabha-samk	359-0316	13-6505
Mithuna-samk.	444-9954	39-9684
Karka-samk	531-5659	72-3342
Simha-samk	617:7811	101-1528
Kanya-samk	703-8180	118-1876
Tulā-samk.	786-2577	119-2579
Vrišchika-samk	868-1583	104-9306
Dhanus-samk	948-9465	79-4803
Makara-samk	29-2691	49-3732
Kumbha-samk	109-8621	21-9660
Mina-samk	191-4052	4.0666

TABLE LVIII-C.

EXACT VALUE OF "e" AND OF "EQUATION 6" AT THE MOMENT OF TRUE MESHA-SAMKRÄNTI AT BEGINNING OF EACH CENTURY K. Y.

"c" in 1,000ths of circle; "equation c" in 10,000ths.

K. Y.	A.D.	c.	Equation C.
4200	1099—1100	274-6475	0-7312
4300	1199—1200	274-5660	0-7317
4400	1299—1300	274-4864	0-7332
4500	1399—1400	274-4058	0-7327
4600	1499—1500	274-3253	0-7322
4700	1599—1600	274-2447	0-7327
4800	1609—1700	274-1642	0-7342

TABLE LVIII-D.

CHANGES IN LENGTHS OF TRUE SOLAR MONTHS, AND IN VALUE OF a, b, c due to the forward shift of the sun's apsis postulated by the Siddhanta-Sidmani.

The entries shew differences from standard (Table LVIII-A, for K. Y. 4500, A.D. 1400) for a year 300 years earlier or later; i.e., for K. Y. 4200 (A.D. 1100) or 4800 (A.D. 1700). Change for intermediate years to be taken proportionately.

(For years earlier than A.D. 1400 use+or-signs as given. For later years reverse the signs.)

At true solar	tive in	a collective of a. kranti to e	b, e from M	čsha sam-	true s	in length of olar a mkrar , b, c be	itis, and inc	rease of
	M. S.	a.	ъ.	c.	M. S.	u,	ь.	c.
1	2		3		4	11/1	5	
Mēsha-sam. V rishabha-sam Mithuna-sam. Karka-sam. Simha-sam. Kanyā-sam. Tulā-sam. V rischika-sam Dhanus-sam. Makara-sam. Kumhha-sam. Kumhha-sam. Mina-sam. Mēsha-sam. (of following year.)	0 0 +0 34 +2 46 +2 27 +2 34 +0 23 -1 2 -2 3 -4 55 -4 9 -2 47 -1 31 -0 12	0-0 +0-1333 +0-6506 +0-5761 +0-6035 +0-0901 -0-2431 -0-4822 -1-1563 -0-9760 -0-6546 -0-3567 -0-0470	0-0 +0-0143 +0-0697 +0-0617 +0-0646 +0-0096 -0-0261 -0-0517 -0-1230 -0-1046 -0-0702 -0-0383 -0-0050	0-0 +0-6011 +0-0053 +0-0047 +0-0049 +0-0008 -0-0019 -0-0038 -0-0092 -0-0077 -0-0051 -0-0027 -0-0004	0 0 +9 34 +2 12 -0 19 +0 7 -2 11 -1 1 -2 52 +0 46 +1 22 +1 16 +1 19	0·0 +0·1333 +0·5173 -0·0745 +0·0274 -0·5134 -0·3332 -0·2301 -0·6741 +0·1803 +0·3214 +0·2979 +0·3097	$\begin{array}{c} 0\text{-}0 \\ +0\text{-}0143 \\ \pm 0\text{-}0554 \\ -0\text{-}0080 \\ +0\text{-}0029 \\ -0\text{-}0550 \\ -0\text{-}0357 \\ -0\text{-}0256 \\ -0\text{-}0722 \\ +0\text{-}0193 \\ +0\text{-}0334 \\ +0\text{-}0319 \\ \pm 0\text{-}0332 \\ \end{array}$	0-0 +0-0011 +0-0042 -0-0006 +0-0002 -0-9041 -0-0054 +0-0015 +0-0026

TABLE LIX,

The Moon's Equation of the centre by the Siddhanta-Simmani.

(For equation of the Sun's centre see Table XLVII, above, p. 23.)

Serial	Moon	'я мт	IAN AN	ом.	SINE OF A	200000000000000000000000000000000000000	Equ	ATION.		Moos	s ale	AN AN	OM.	Serial
No. of Sine.	Moon	a eq	nation	ı —	Value in minutes.	Diff.	Equation in degrees.	Diff. per min. of anom.	Equation in 10,000ths of circle.	Moon	's eq	nation	+	No. of Sine.
1		1 65	2		3	4	5	6	7		8			1
	0	,	0	7		i	0 / "	11		(e)		0	9	
:0	0	0	180	0	0	nar.	0 0 0	5-26	0-0	180	0	360	0	0
3	3	45	176	15	223	225	0 19 45-00	TOTAL	9-1435	183	45	356	15	î
2	7	30	172	30	449	224	0 39 24-73	5-2433	18-2564	187	30	352	30	4
3	11	15	168	15	671	222	0 58 58-93	5-196/	27-2680	191	15	348	45	2
4	15	0	165	0	890	219	1 18 7-3	5:1262	36-1677	195	0.1	345	ó.	4
5	18	45	161	15	3105	215	1 36 59-6	5-0326	44-9048	198	15	341	15	- 5
6	22	30	157	30	1315	210	1 55 25-6	4-915	53-4388	202	30	337	30	6
7	26	15	153	45	1520	205	2 13 25-3	4-7985	61-7695	206	15	333	45	7
8	30	0	150	0	1719	199	2 30 53 40	4-6581	69-8568	210	0	330	0	8
9	33	45	146	15	1910	191	2 47 39-3	4-4708	77-6183	213	45	326	15	9
10	37	30	142	30	2003	183	3 3 43-12	4-2835	85-0550	217	30	322	30	10
11	41	15	138	45	2267	174	3 18 59-53	4-0728	92-1260	221	15	318	45	11
12	45	0	135	0	2431	164	3 33 23-56	3-8383	98-7914	225	0	315	0	10
13	1.48	45	131	15	2585	154	3 46 54-8438	3-6070	105-0528	228	45	311	15	13
14	52	30	127	20	2728	143	3 59 31-3393	3-3622	110-8900	232	30	307	30	14
15	56	15	123	45	2850	131	4 11 4-3661	3-0801	116-2374	236	15	303	45	15
16	60	0	120	0	2978	119	4 21 33-8839	2-7979	121-0948	240	0	300	0	16
17	63	45	116	15	3084	106	4 30 54-9107	24890	125-4237	243	45	206	15	17
18	67	30	112	30	3177	93	4 39 6-6027	24853	129-2176	247	30	202	30	18
19	71	15	108	45	3256	79	4 46 3 8839	1-8546	132-4374	251	15	288	45	19
20	75	0	105	0	3321	65	4 51 49-0848	1-5342	135-1010	- 22	0	285	0	20
21	78	45	101	15	3372	51	4 56 18-2143	1-1961	137-1776	Figure	45	281	15	21
22	82	30	97	30	3100	37	4 59 33-9500	0-8699	138-6870		30	277	30	22
23	86	15	93	45	3431	22	5 1 30-3348	0-5173	139-5859	1	15	273	45	23
24	90	0	90	0	3438	7	5 2 7-3061	0-1646	139-8717		0	270	0	24
-	-				1	1	4		1	1	10			

TABLE LX.

CONSTRUCTION OF TABLE.

The Table is constructed on the lines of Table I of the Indian Calendar, and columns are similarly numbered, so as to facilitate comparison of details by the Ārya-and Sārya-Siddhāntas with those of the Siddhānta-Śirōmani, to which the present Table applies.

- Cols. 1, 2.—In conformity with this the Kaliyuga and Saka years stated are current years, not expired years. For years of other eras refer to Tables I and II, Part III, Indian Calendar. Col. 5.—Years A.D. marked with an asterisk are leap-years.
- Col. 7.—The sameatsara-name—i.e., the name of the Jovian cycle—of the year is given as determined by my previous calculations. See Table XLII above. Entries in italics shew cases where the sameatsara-name of the year differs from that fixed by Surya-Siddhanta calculation.
- Col. 8.—Months entered in roman characters are intercalated (adhika) lunar months. Those in italics are suppressed (kshaya) months.
- Cols. 13, 19,—Figures in brackets give the serial number of the day measured from January 1.
 - Col. 23. "a"=distance mean moon from mean sun, stated in 10,000ths of circle.
- Col. 24. "b"=mean anomaly of moon, or moon's mean distance from perigee-point of apsis, stated in 1,000ths of circle.
- Col. 25. "c"=sun's mean anomaly, or sun's mean distance from perigee-point of apsis, stated in 1,000ths of circle.

REMARKS.

- A.D. 1128-29.—Close case. Possibly 9 Mārgašira, intercalated (adhika), 10 Pausha suppressed (kshaya), 12 Phālguna adhika.
 - ,, 1183-84.—According to the 19-year sequence the adhika month should have been 3 Jyeshtha.
 - ., 1242-43.—The adhika month should have been 6 Bhadrapada by sequence.
 - " 1316-17.—Close case. By sequence 2 Vaisākha expected as adhika.
 - .. 1410-11.—By sequence 7 Asvina expected as adhika.
 - ,, 1429-30.—By sequence 7 Asvina expected as adhika,
 - 1679-80, 1698-99, 1717-18, 1736-37.—By the 19-year sequence in the two former years 4 Ashādha expected as adhika; or else in the two latter years 3 Jyèshtha expected as adhika. But the result in each case by work from the Tables is as tabulated.
 - ,, 1749-Close case. See Text, example 6 at end.

TABLE

_	_		_	_					
					CONCUR	BENT YE	AR.		
Kal		aka.	Chaiteadi Vikrams.	Meshadi (solar) year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	Northern system.	Intercalated and suppressed (ksh.) lunar months.
		170	3	ME.					
1		9	3	3a	4	5	6	7	8
40	101	1022	1157	506	274-75	1009-1100	13 Pramāthin .	16 Chitrabhānu .	3 Jyeshtha
42	202	1023	1158	507	275-76	*1100.01	14 Vikrama .	17 Subhānu .	1
43	203	1024	1159	508	276-77	1101-02	15 Vrisha	18 Tarana	7 Aśvina .
45	204	1025	1160	500	277-78	1102-03	16 Chitrabhānu .	19 Pärthiya .	
43	205	1026	1161	510	278-70	1103-04	17 Subhām .	20 Vyaya .	265
43	206	1027	1162	511	279-80	*1104.05	18 Tarana	21 Sarvajit .	4 Āshādha .
4	207	1028	1163	512	280-81	1105.06	19 Parthiya .	33 Sarvadhārin .	in ?
4	208	1020	1164	513	281-82	1106-07	20 Vyaya	23 Virodhin .	
4	209	1030	1165	324	282.83	1107-08	21 Sarvajit .	. 24 Vikrita	3 Jyështha
4	210	1031	1100	-515	283-84	+1108-00	22 Sarvadhārin .	25 Khara	8 Kārttika
-4	211	1032	1167	516	284-85	1109-10	23 Virodbin .	28 Nandana	10 Pausha (ksh)
.4	212	1033	1168	517	285-86	1110:11	24 Vikrita	. 27 Vijaya	G12 Printgenia
1	213	1004	1169	518	280-87	1111-12	25 Khara .	. 28 Jaya	120
110	1214	1035	1170	519	287-88	*1112-13	26 Nandana	. 29 Manmathin .	5 Śrāvaņa .
3	1215	1036	1171	520	288-59	1113-14	27 Vijaya .	. 30 Durmukha .	500
14	4216	1037	1172	521	289-00	1114-15	28 Jaya .	. 31 Hēmalamba .	2003
39	4217	1038	1173	522	200-91	1115-16	29 Manuatha	. 32 Vilamba .	4 Ashteha .
13	4918	1039	1174	528	201-92	=1110-17	30 Darmukha	. 33 Vikārin	
100	4219	1040	1175	524	202-05	1117-18	31 Hēmalamba	- 34 Sarvarm	****
18	4220	1041	1176	525	293-94	1118-19	32 Vilamba	. 35 Plays	2 Valfakha .
1	4221	1042	1177	520	294-95	1119-20	33 Vikārin	. 36 Subbalant	
	4222	1043	1178	. 527	295-96	*1120-21	34 Śārvarin	. 37 Sõbhana	. 6 Bhādrapada
	4923	1044	1179	528	290-97	1121-22	35 Playa .	. 38 Krādhin	7.00
	4224	1045	1180	520	297-98	1122-23	35 Subhakrit	. 39 Vilvāvasu	
	4825	1046	118	. 530	298-99	1123-24	37 Śōbhana	. 40 Parabhaya	4 Ashādha
11 3		-	100	2					-

LX.

		COMM	ENCEMENT O	F THE	120		1	
Se	OLAR YEAR.		LUNI-SOLAR		SUNRISE OF		шсн	Kali
Day and month. A. D.	Week- day	Time of true Mesha- samkranti.	Day and month, A.D.	Week- day.	a.	ь	G	year.
13	14	17	19	20	23	24	25	ĭ
SAME OF GROOM		H. M. S.	6 / A / A / A / A / A / A / A / A / A /		TO STATE OF	Company of the Compan	02/2007/00	100
23 Mar. (82)	4 Wed.	6 11 11	24 Feb. (55)	5 Thur.	228-7161	574-4426	200-0218	4201
22 Mar. (82)	5 Thur.	12 23 20	13 Mar. (73)	3 Tues.	9924-7666	474-1445	248-5944	4202
22 Mar. (81)	6 Fri.	18 35 29	2 Mar. (61)	0 Sat	9800-4894	321-3885	217-7712	4203
23 Mar. (82)	1 Sun	0 47 38	21 Mar. (80)	6 Fri	9835-1718	256-3820	269-0815	4204
23 Mar. (82)	2 Mon.	6 59 46	11 Mar. (70)	4 Wed.	49-5266	140-9176	240-9962	4205
22 Mar. (82)	3 Tues.	13 11 55	28 Feb. (59)	1 Sun	9925-2495	988-1617	210-1700	4206
22 Mar. (81)	4 Wed.	19 24 4	18 Mar. (77)	0 Sat	9959-9318	924-1552	261-4834	4207
23 Mar. (82)	6 Fri	1 36 13	8 Mar. (67)	5 Thur.	174-2867	807-6909	233-3979	4208
23 Mar. (82)	0 Sat	7 48 22	25 Feb. (56)	2 Mon	50-0095	654-9350	202-5747	4209
22 Mar. (82)	1 Sun	14 0 31	15 Mar. (75)	1 Sun	84-6918	590-9284	253-8852	4210
22 Mar. (81)	2 Mon	20 12 39	4 Mar. (63)	5 Thur.	9960-4147	438-1725	223-0619	4211
23 Mar. (82)	4 Wed.	2 24 48	23 Mar. (82)	4 Wed,	9995-0971	374-1659	274-3723	4212
23 Mar. (82)	5 Thur.	8 36 57	12 Mar. (71)	1 Sun.	9870-8200	221-4100	243-5492	4213
22 Mar. (82)	6 Fri	14 49 6	1 Mar. (61)	6 Fri	85-1747	104-9457	215-4638	4214
22 Mar. (81)	0 Sat	21 1 15	20 Mar. (79)	5 Thur.	119-8572	40-9392	266-7742	4215
23 Mar. (82)	2 Mon	3 13 24	9 Mar. (68)	2 Mon	9995-5800	888-1832	235-9509	4216
23 Mar. (82)	3 Tues.	9 25 32	27 Feb. (58)	0 Sat	209-9348	771-7279	207-8655	4217
22 Mar. (82)	4 Wed.	15 37 41	17 Mar. (77)	6 Fri	244-6172	707-7124	259-1760	4218
22 Mar. (81)	5 Thur.	21 49 50	6 Mar. (65)	3 Tues.	120-3401	554-9564	228-3527	4219
23 Mar. (82)	0 Sat	4 1 59	23 Feb. (54)	0 Sat	9996-0629	402-2005	197-5295	4220
23 Mar. (82)	1 Sun	10 14 8	14 Mar. (73)	6 Fri	30-7453	338-1940	248-8399	4221
22 Mar. (82)	2 Mon. ,	16 26 17	2 Mar. (62)	3 Tues.	9906-4681	185-4382	218-0168	4222
22 Mar. (81)	3 Tues.	22 38 25	21 Mar. (80)	2 Mon	9941-1506	121-4315	269-3271	4222
23 Mar. (82)	5 Thur.	4 5 34	11 Mar. (70)	0 Sat	155-5053	4-9672	241-2417	4224
23 Mar. (82)	6 Fri	11 2 43	28 Feb. (59)	4 Wed.	31-2282	851-0034		4225
	1			The same of		The second second	I was a second	

TABLE

-	-	-		CONC	URRENT 3	EAR.		
		krama.	ar) year		Le no	Joylan S	MVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Saka.	Chaiteadi Vikrama.	Mēshādi (solar) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3a	4	5	6	7	8
4226	1047	1182	531	299-00	*1124-25	38 Krődhin .	41 Playanga .	
4.227	1048	1183	232	300:01	1125-26	30 Vikvāvasu .	42 Kilaka	11 55.00
4228	1049	1184	533	301-02	1126-27	40 Parābhava .	43 Samaya .	3 Jyeshtha .
4.229	1050	1185	534	302-03	1127-28	41 Playanga .	44 Sādhārana .	- en
4230	1051	1186	535	303-04	*1128-29	42 Kilaka	45 Virôdhakrit ,	12 Phälguna† .
4231	1052	1187	536	304-05	1129-30	43 Saumya .	46 Paridhāvin ,	22
4232	1053	1188	537	305-06	1130-31	44 Sådhårana .	47 Pramādin .	***
4.233	1054	1189	538	306-07	1131-32	45 Virodhakrit .	48 Ananda	ö Śrāvaņa .
4234	1055	1190	539	307-08	*1132-33	46 Paridhāvin	40 Rākshasa .	3960
4235	1056	1191	540	308-09	1133-34	47 Pramādin	50 Anala	***
4236	1057	1192	541	309-10	1134-35	48 Ananda .	51 Pingala	4 Āshādha .
4237	1058	1193	542	310-11	1135-36	49 Rākshasa .	52 Kālayakta	
4.238	1050	1194	543	311-12	*1136-37	50 Anala	53 Siddhārthin ,	***
4239	1060	1195	544	312-13	1137-38	51 Pingala .	54 Raudra .	2 Vaišākha
4240	1061	1196	545	313-14	1138-39	52 Kālayukta .	55 Durmati .	101"-0 m
4241	1062	1197	546	314-15	1139-40	53 Siddharthin .	56 Dundubhi .	6 Bhādrapada
4242	1063	1198	547	315-16	*1140-41	54 Raudra .	57 Rudhirödgörin	
4243	1064	1199	548	316-17	1141-42	55 Durmati .	58 Raktāksha .	
4244	1005	1200	549	317-18	1142-43	56 Dundubhi .	59 Krödhana .	4 Ashādha .
4245	1066	1201	550	318-19	1143-44	57 Rudhirödgärın	60 Kahaya	
4246	1067	1202	551	319.20	*1144-45	58 Raktālesha .	I Prabhava	
4247	1068	1293	552	320-21	1145-46	59 Krödhana .	2 Vibhaya .	3 Jyéshtha .
4248	1069	1204	553	321.22	1146-47	60 Kahaya	3 Sokla .	8 Kirttika
4249	1070	1205	554	322-23	1147-48	1 Prabhava .	4 Pramôda	0 Panska (ksh.)
4.250	1071	1206	555	323-24	*1148-49	2 Vibhava .	5 Prajāpati	- Thaiguna
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* See Remarks, p. 163 above.

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		COMM	IENCEMENT O	FTHE						
Se	OLAR YEAR.		LUNI-SOLAR YEAR (MEAN SUNRISK OF DAY ON WHICH CHAITRA SURLA I ENDS).							
Day and month, A.D.	Week- day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week- day.	a.	ь.	o	year.		
13	14	17	19	20	23	24	25	1		
22 Mar. (82)	0 Sat	H. M. 8. 17 14 52	18 Mar. (78)	3 Tues.	65-9106	788-2047	261-7290	4226		
22 Mar. (81)	1 Sun	23 27 1	8 Mar. (67)	1 Sun	280-2655	671-7404	233-6435	4227		
23 Mar. (82)	3 Tues.	5 39 10	25 Feb. (56)	5 Thur.	155-9882	518-9845	202-8202	4228		
23 Mar. (82)	4 Wed.	11 51 19	15 Mar. (74)	3 Tues.	9852-0386	418-6:63	251-3929	4229		
22 Mar. (82)	5 Thur.	18 3 27	3 Mar. (63)	0 Sat	9727-7615	265-9303	220-5698	4230		
23 Mar. (82)	0 Sat	0 15 36	22 Mar. (81)	6 Fri.	9762-4438	201-9239	271-8801	4231		
23 Mar. (82)	1 Sun.	6 27 45	12 Mar. (71)	4 Wed.	9976-7987	85-4595	243-7947	4232		
23 Mar. (82)	2 Mon	12 39 54	2 Mar. (61)	2 Mon	191-1545	968-9952	215-7093	4233		
22 Mar, (82)	3 Tues.	18 52 3	20 Mar. (80)	1 Sun.	225-8360	904-9887	207-0197	4234		
23 Mar. (82)	5 Thur.	1 4 12 7 16 20	9 Mar. (68)	5 Thur.	101-5587	751-2327	236-1965	4235		
23 Mar. (82) 23 Mar. (82)	6 Fri	7 16 20 13 28 29	26 Feb. (57) 17 Mar. (76)	2 Mon	9977-2816 11-9640	599-4768	205-3732	4236		
23 Mar. (82) 22 Mar. (82)	1 Sun	19 40 38	1 M. Service, Street V	5 Thur.	9887-6769	382-7143	225-8005	4237		
23 Mar. (82)	3 Tues.	1 52 47	5 Mar. (65) 22 Felx (53)	2 Mon	9763-4097	229-9583	195-0373	4238		
23 Mar. (82)	4 Wed.	8 4 56	13 Mar. (72)	1 Sun	9798-0921	165-9518	246:3477	4230		
23 Mar. (82)	5 Thur.	14 17 5	3 Mar. (62)	6 Fri.	12-4469	49-4876	218-2623	4241		
22 Mar. (82)	6 Fri.	20 29 13	21 Mar. (81)	5 Thur.	47-1292	985-4810	269-5727	4242		
23 Mar. (82)	1 Sun.	2 41 22	11 Mar. (70)	3 Tues.	261-4841	869-0167	241-4873	4243		
23 Mar. (82)	2 Mon	8 53 31	28 Feb. (59)	9 Sat.	137-2070	716-2597	and the second	4244		
23 Mar. (82)	3 Tues.	15 5 40	19 Mar. (78)	6 Fri	171-8894	652-1542	261-9745	4245		
22 Mar. (82)	4 Wed.	21 17 49	7 Mar. (67)	3 Tues.	47-6122	499-4983	231-1512	4246		
23 Mar. (82)	6 Fri	3 29 58	24 Feb. (55)	0 Sat	9923-3350	346-7423	200-3281	4217		
23 Mar. (82)	9 Sat	9 42 7	15 Mar. (74)	6 Fri	9958-0174	282-7358	251-6385	4248		
23 Mar. (82)	1 Sun	15 54 15	4 Mar. (63)	3 Tues.	9833-7402	129-9798	220-8153	4249		
22 Mar. (82)	2 Mon	22 6 24	22 Mar. (82)	2 Mon	9868-4226	65-9734	272-1256	1		
					1	-	V-(-1)	-		

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				CONCL	TRRENT Y	EA	R.		
Kali.	Saks.	Chattradi Vikrams.	solar) year L	Kollam.	A.D.		JOVIAN SA	MVATSAHA.	Intercalated and suppressed (ksh.) lunar months.
		Chaitradi	Mëshādi (solar) in Bengal,				Southern system.	Northern system.	
1	2	3	Sa	4	5		- 6	7	8
4251	1072	1207	556	324-25	1149-50	3	Śukla	6 Angiras .	7444
4252	1073	1208	537	325-26	1150-51	4	Pramôda .	7 Śrimukha .	5 Stāvaņa .
4253	1074	1209	558	326-27	1151-52	5	Prajāpati .	8 Bhāva	4
4234	1075	1210	559	327-28	*1152-53	- 6	Angiras .	9 Yuvan	
1255	1076	1211	560	328-29	1153-54	7	Śrimukha .	10 Dhátri	4 Āshādha .
4256	1077	1212	561	329.30	1154-55	8	Bhāva .	11 Iśvara	300
4257	1078	1213	562	330-31	. 1155-56	9	Yuvan	12 Bahudhānya ,	The state of
4258	1079	1214	563	331-32	*1156-57	10	Dhātri . ,	13 Pramāthin ,	2 Vaišākha .
4259	1080	1215	564	332-33	1157-58	11	Isvara	14 Vikrama .	***
4260	1081	1216	565	333-34	1158-59	12	Bahudhänya ,	15 Vrisha	6 Bhādrapada
4261	1082	1217	366	334-35	1159-60	13	Pramathin .	16 Chitrabhānu ,	
4262	1083	1218	567	335-36	*1160-61	14	Vikrama .	18 Tāraņa† .	- AN
4263	1084	1219	568	336-37	1161-62	1.5	Vrisha	19 Parthieu .	4 Åshådha
4264	1085	1220	569	337-38	1162-63	16	Chitrabhanu .	20 Vyaya	a we
4265	1086	1221	570	338-39	1163-64	17	Subhānu .	21 Sarvajit .	
4266	1087	1222	571	339-40	*1164-65	18	Tāraņa	22 Sarvadhārin ,	3 Jyështha .
4267	1088	1223	572	340-41	1165-66	19	Pārthiva .	23 Virôdhin	7 Table 8
1268	1089	1924	578	341-42	1166-67	20	Vyaya 2 11.	24 Vikrita , 🔫	7 Asvina 10 Pausha (ksh.)
4200	1090	1225	574	342-43	1167-68	21	Sarvajit .	25 Khara	12 Phälguna
4270	1091	1226	575	343-44	*1168-69	20	Sarvadhārin .	26 Nandana .	4.3
4271	1092	1227	570	344-45	1169-70	23	Virödhin .	27 Vijaya	5 Srāvaņa
1272	1093	1228	577	345-46	1170-71	24	Vikrita	28 Jaya	
9272	1094	1229	578	246947	1171-72	25	Khara	29 Manmatha .	***
4274	1095	1230	579	347-48	*1172-73	26	Nandana .	30 Durmukha .	4 Ashādha
4275	1006	1231	580	348-49	1178-74	27	Vijaya	31 Hēmalamba	1 1 4
		17111							

† 17 Subbanu was suppressed in the north

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		CON	IMENCEMENT	OF THE				
	SOLAR YEAR		LUNI-SOLA		ean sunrise Suria 1 es		water	Kali year.
Day and month, A.D.	Week-day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	a.	b.	6	35
13	14	17	19	20	23	24	25	1
		H. M. S.				199		
23 Mnr. (82)	4 Wed.	4 18 33	12 Mar. (71)	0 Sat	82-7775	949-5090	244-0403	4251
23 Mar. (82)	5 Thur.	10 30 42	2 Mar. (61)	5 Thur.	297-1322	833-0447	215-9549	4252
23 Mar. (82)	6 Fri	16 42 51	21 Mar. (80)	4 Wed.	331-8147	769-0742	267-2662	4253
22 Mar. (82)	0 Sat	22 55 0	9 Mar. (69)	1 Sun	207-5375	616-2822	236-4420	4254
23 Mar. (82)	2 Mon	5 7 8	26 Feb. (57)	5 Thur.	83-2604	463-5263	205-6188	4255
23 Mar. (82)	3 Tues.	11 19 17	16 Mar. (75)	3 Tues.	9779-3107	363-2282	254-1915	4256
23 Mar. (82)	4 Wed.	17 31 26	6 Mar. (65)	1 Sun	99 3-6656	246-7638	226-1060	4257
22 Mar. (82)	5 Thur.	23 13 35	23 Feb. (54)	5 Thur.	9869-3885	94-0078	195-2928	4258
23 Mar. (82)	0 Sat	5 55 44	13 Mar. (72)	4 Wed.	9904-0709	30-0013	246-5932	4259
23 Mar. (82)	1 Sun	12 7 53	3 Mar. (62)	2 Mon	118-4256	913-5371	218-5079	4260
23 Mar. (82)	2 Mon	18 20 1	22 Mar. (81)	1 Sun	153-1080	849-5306	269-7796	4261
23 Mar. (83)	4 Wed.	0 32 10	10 Mar. (70)	5 Thur.	28-8309	696-7746	238-9950	4262
23 Mar. (82)	5 Thur.	6 44 19	27 Feb. (58)	2 Mon	9904-5537	544-0187	208-1718	4263
23 Mar. (82)	6 Fri	12 56 28	18 Mar. (77)	1 Sun	9939-2361	480-0121	259-4823	4264
23 Mar. (82)	0 Sat	19 8 37	7 Mar. (66)	5 Thur.	9814-9590	327-2562	228-6590	4265
23 Mar. (83)	2 Mon	1 20 46	25 Feb. (56)	3 Tues.	29-3138	210-7918	200-5736	4266
23 Mar. (82)	3 Tues,	7 32 54	15 Mar. (74)	2 Mon	63-9961	146-7853	251-8740	4267
23 Mar. (82)	4 Wed.	18 45 3	4 Mar. (63)	6 Fri	9939-7190	994-0294	221-0609	4268
23 Mar. (82)	5 Thur.	19 57 12	23 Mar. (82)	5 Thur.	9974-4014	930-0228	272-3713	4269
23 Mar. (83)	0 Sat	2 9 21	12 Mar. (72)	3 Tues.	188-7562	813-5586	244-2858	4270
23 Mar. (82)	1 Sun	8 21 30	1 Mar. (60)	0 Sat	64-4791	660-8026	213 4626	4271
23 Mar. (82)	2 Mon.	14 33 39	20 Mar. (79)	6 Fri	99-1615	596-7961	264-7731	4272
23 Mar. (82)	3 Tues.	20 45 47	9 Mar. (68)	3 Tues,	9974-8844	444-0401	233-9498	4273
23 Mar. (83)	5 Thur.	2 57 56	26 Feb. (57)	0 Sat	9850-6071	291-2842	203-1265	4274
23 Mar. (82)	6 Fri	9 10 5	16 Mar. (75)	6 Fri	9885-2895	227-2777	254-4370	4275
	- 1			- Course			THE PERSON NAMED IN COLUMN	

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				CONCU	RRENT Y	EAR.	Ada I	
Kali.	Saka.	Chaitrādi Vikrama.	Meshidi (solar) yoar in Bengal.	Kollam.	A.D.	JOVIAN SA Southern system.	Northern system.	Intercalated and suppressed (ksh.) lunar months.
1	2	- 3	3a	4	5	6	7	8
4276 4277 4278 4279 4280 4281 4283 4284 4285 4286 4287 4288 4289 4290 4291 4292 4293 4294 4295 4296 4297 4298	1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117	1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1246 1247 1248 1249 1250 1251 1252	581 582 533 584 585 586 587 588 590 591 592 593 594 595 596 597 598 599 600 601 602 603	349-50 350-51 351-52 352-53 353-54 354-55 355-56 356-57 357-58 358-59 369-60 360-61 361-62 362-63 363-64 364-65 365-66 366-67 367-68 368-69 369-70 579-71 371-72	1174-75 1175-76 *1176-77 1177-78 1178-79 1179-80 *1180-81 1181-82 1182-83 1183-84 *1184-85 1185-86 1186-87 1187-88 *1188-89 1189-90 1190-91 1191-92 *1192-93 1193-94 1194-95 1195-96 *1196-97	28 Jaya	32 Vilamba 33 Vikārin 34 Sārvarin 35 Plava 36 Subhakrit 37 Sōbhana 38 Krōdhin 39 Viávāvasu 40 Parābhava 41 Plavanga 42 Kilaka 43 Saumya 44 Sādhāraņa 45 Virōdhakrit 46 Paridhāvin 47 Pramādin 48 Ānanda 49 Rākshasa 50 Anala 51 Piāgala 52 Kālayukta 53 Siddhārthin 54 Raudra	S 2 Vaišākha 6 Bhādrapada 2 Vaišākha† 5 Šrāvana] 2 Vaišākha 6 Bhādrapada 2 Vaišākha 6 Bhādrapada
4299	1120	1255	604	372-73	1197-98	51 Pingala .	55 Durmati	
4300	1121	1256	605	373-74	1198-99	52 Kälayukta ,	56 Dundubhi .	180

† See Remarks, p. 163 above.

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		COM	MENCEMENT (OF THE			-	
S	OLAR YEAR.		LUNI-SOLAR	YEAR (MEA CHAITEA	n sundise c Surla 1 en	of DAY ON DS).	WHICH	Kali
Day and month, A.D.	Week- day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week-day.	a.	6.	c.	year
13	14	17	19	20	23	24	25	1
23 Mar. (82)	0 Sat	H. M. S. 15 22 14	6 Mar. (65)	4 Wed.	99-6444	110-8133	226-3516	4278
23 Mar. (82)	1 Sun	21 34 23	23 Feb. (54)	1 Sun	9975-3672	958-0573	195-5284	4277
23 Mar. (83)	3 Tues	3 46 32	13 Mar. (73)	0 Sat	10-0496	894-0508	246-8387	4278
23 Mar. (82)	4 Wed	9 58 41	3 Mar. (62)	5 Thur.	224-4044	777-5866	218-7534	4279
23 Mar. (82)	5 Thur.	16 10 49	22 Mar. (81)	4 Wed	259-0868	713-5801	270-0638	4280
23 Mar. (82)	6 Fri	22 22 58	11 Mar. (70)	1 Sun.	134-8096	560-8241	239-2406	4281
23 Mar. (83)	I Sun	4 35 7	28 Feb. (59)	5 Thur.	10-5325	408-0682	208-4173	4282
23 Mar. (82)	2 Mon	10 47 16	18 Mar. (77)	4 Wed	45-2149	344-0616	259-7218	4283
23 Mar. (82)	3 Tues	16 59 25	7 Mar. (66)	1 Sun	9920-9377	191-3017	228-9046	4284
23 Mar. (82)	4 Wed.	23 11 34	24 Feb. (55)	5 Thur.	9796-6605	38-5497	198-0814	4285
23 Mar. (83)	6 Fri	5 23 42	15 Mar. (75)	5 Thur.	169-9748	10-8348	252-1295	4286
23 Mar. (82)	0 Sat	11 35 51	4 Mar. (63)	2 Mon.	45-6978	858-0789	221-3064	4287
23 Mar. (82)	I Sun	17 48 0	23 Mar. (82)	I Sun	80:3801	794-0717	272-6168	4288
24 Mar. (83)	3 Tues.	0 0 9	13 Mar. (72)	6 Fri	294-7350	677-5180	244-5314	4289
23 Mar. (83)	4 Weâ.	6 12 8	1 Mar. (61)	3 Tues.	170-4579	524-8521	213-7081	4290
23 Mar. (82)	5 Thur.	12 24 27	19 Mar. (78)	1 Sun	9866-5083	424-5529	262-2808	4291
23 Mar. (82)	6 Fri	18 36 35	8 Mar. (67)	5 Thur.	9742-2311	271-7980	231-4576	4292
24 Mar. (83)	1 Sun.	0 48 44	26 Feb. (57)	3 Tues.	9956-5859	155-3337	203-3721	4293
23 Mar. (83)	2 Mon.	7 0 53	16 Mar. (76)	2 Mon.	9991-2683	91-3272	254-6825	4294
23 Mar. (82)	3 Tues.	13 13 2	6 Mar. (65)	0 Sat	205-6231	974-8629	226-5971	4295
23 Mar. (82)	4 Wed.	19 25 11	23 Feb. (54)	4 Wed.	81-3459	822-1069	195:7740	4296
24 Mar. (83)	6 Fri	1 37 20	14 Mar. (73)	3 Tues.	116-0284	758-1003	247/0843	4297
23 Mar. (83)	0 Sat	7 49 28	2 Mar. (62)	0 Sat	9991-7511	605-2444	216-2611	4298
23 Mar. (82)	1 Sun	14 1 37	21 Mar. (80)	6 Fri	26-4336	541-3379	267-5715	4299
23 Mar. (82)	2 Mon	20 13 46	10 Mar. (69)	3 Tues.	9902-1564	388-5820	236-7484	4300

TABLE

-	_	-	-	_				
			_		CONCUR	RENT YEAR.		
Kali	Saka.	Chaitradi Vikrama.	Meshadi (solar) year in Bengal.	Kollam.	A.D.	Jovian Sam Southern system.	Northern system.	Intercalated and suppressed (ksh.) lunar months.
1	2	3	3a	4	5	6	7	8
4301	1122 1123	1257 1258	606	374-75 375-76	1199-00	53 Siddhärthin . 54 Raudra	57 Rudhirödgärin 58 Raktālaha .	4 Ashādha.
4303	1124	1259	608	376-77	1201-02	55 Durmati .	59 Krčdhana .	
4304	1125	1260	609	377-78	1202-03	56 Dundubhi .	60 Kshaya	3 Jyeshtha .
4305	1126	1261	610	378-79	1203-04	57 Rudhirödgárin	1 Prabhava .	
4306	1127	1262	611	379-80	*1204-05	58 Raktāksha .	2 Vibhava	6 Bhādrapada .
4307	1128	1263	612	380-81	1205-06	59 Krôdhana ,	3 Šukla	531 11 11
4308	1129	1264	613	381-82	1208-07	60 Kshaya	4 Pramöda	200
4309	1130	1265	614	382-83	1207-08	1 Prabhava .	5 Prajāpati .	5 Śrāvaņa .
4310	1131	1266	615	383-84	*1208-09	2 Vibhava	6 Angires	7 m
4311	1132	1267	616	384-85	1209-10	3 Sukla	7 Srimukha .	3445
4312	1133	1268	617	385-86	1210-11	4 Pramôda .	8 Bhāva	3 Jyeshtha .
4313	1134	1269	618	386-87	1211-12	5 Prajapati .	9 Yuvan .	4 1 1 222
4314	1135	1270	619	387-88	*1212-13	6 Angiras	10 Dhatri . {	8 Kārttika 9 Mārgaś:(ksh) }
4315	1136	1271	620	388-89	1213-14	7 Śrimukha .	11 Isvara	2 Vaišākha .
4316	1137	1272	621	389-90	1214-15	8 Bhāva	12 Bahudhānya .	
4317	1138	1273	622	390-91	1215-16	9 Yuvan	13 Pramāthin .	6 Bhādrapada .
4318	1139	1274	623	391-92	*1216-17	10 Dhātri	14 Vikrama .	
4319	1140	1275	(24	592-93	1217-18	11 Isvara	15 Vrisha	**
4320	1141	1276	625	393-94	1218-19	12 Bahudhanya .	16 Chitrabhānu .	4 Åshādba .
4321	1142	1277	626	394-95	1219-20	13 Pramāthin .	17 Subhānu ,	Taur.
4322 4323	1143	1278	627	395-96	*1220-21	14 Vikrama .	18 Tāraņa	2944
4324	1144	1279 1280	628 629	396-97	1221-22	15 Vrisha	19 Pārthiva	3 Jyeshtha
4325	1146	1281	630	397-98	1222-23 1223-24	16 Chitrabhānu .	20 Vyaya , ,	•••
9020	1140	1201	930	398-99	1623-24	17 Sebhānu .	21 Sarvajit .	6 Bhādrapada .

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1			COMM	ENCEMENT O	FTHE				
1	Sc	OLAR YEAR.		LUNI-SOLAR		n sunrise o ukla 1 end		vhich	Kali
	Day and month, A.D.	Week-day	Time of true Mësha- samkränti.	Day and month, A.D.	Week- day.	a.	ь.	c.	year.
١	13	14	17	19	20	23	24	25	1
1	24 Mar. (83)	4 Wed.	H. M. S. 2 25 55	27 Feb. (58)	0 Sat	9777-8793	236-2261	205-8446	4301
١	23 Mar. (83)	5 Thur.	8 38 4	17 Mar. (77)	6 Fri	9812-5617	171-8196	257-1551	4302
١	23 Mar. (82)	6 Fri	14 50 13	7 Mar. (66)	4 Wed.	26-9166	55-3552	229-0696	4303
١	23 Mar. (82)	0 Sat	21 2 22	25 Feb. (56)	2 Mon	241-2713	938-8910	200-9741	4304
1	24 Mar. (83)	2 Mon	3 14 30	16 Mar. (75)	1 Sun	275-9537	874-8844	252-2946	4305
١	23 Mar. (83)	3 Tues	9 26 39	4 Mar. (64)	5 Thur.	151-6766	722-1285	221-4714	4306
١	23 Mar. (82)	4 Wed.	15 38 48	23 Mar. (82)	4 Wed.	186-3589	658-1220	272-7818	4307
١	23 Mar. (82)	5 Thur.	21 50 57	12 Mar. (71)	1 Sun	62-0918	505-3860	241-9586	4308
١	24 Mar. (83)	0 Sat.	4 3 5	1 Mar. (60)	5 Thur.	9937-8047	352-6101	211-1354	4309
١	23 Mar. (83)	1 Sun.	10 15 15	19 Mar. (79)	4 Wed.	9972-4870	288-6035	262-4459	4310
١	23 Mar. (82)	2 Mon.	16 27 23	8 Mar. (67)	1 Sun	9848-2098	135-8475	231-6226	4311
١	23 Mar. (82)	3 Tues.	12 39 32	26 Feb. (57)	6 Fri	62-5647	19-3832	203-5371	4312
١	24 Mar. (83)	5 Thur.	4 51 41	17 Mar. (76)	5 Thur.	97-2471	955-3767	254-8476	4313
١	23 Mar. (83)	6 Fri	11 3 50	5 Mar. (65)	2 Mon.	9972-9699	802-6209	224-0244	4314
١	23 Mar. (82)	0 Sat	17 15 59	23 Feb. (54)	0 Sat	187-3447	686-1565	195-9390	4315
1	23 Mar. (82)	1 Sun.	23 28 8	14 Mar. (73)	6 Fri	222-0072	622-1500	247-2493	4316
	24 Mar. (83)	3 Tues.	5 40 16	3 Mar. (62)	3 Tues.	97-7299	468-4030	216-4262	4317
1	23 Mar. (83)	4 Wed.	11 52 25	20 Mar. (80)	1 Sun	9793-7804	369-0958	264-9988	4318
١	23 May. (82)	5 Thur.	18 4 34	10 Mar. (69)	6 Fri	8-1352	252-6315	236-9134	4319
	24 Mar. (83)	0 Sat.	0 16 43	27 Feb. (58)	3 Tues.	9883-8581	99-8756	205-3826	4320
	24 Mar. (83)	1 Sun.	6 28 52	18 Mar, (77)	2 Mon.	9918-5404	35-8691	257-4006	4321
	23 Mar. (83)	2 Mon	12 41 1	7 Mar. (67)	0 Sat	132-8953	919-4048	229-3152	4322
1	23 Mar (82)	3 Tues	18 53 10	24 Feb. (55)	4 Wed.	8-6181	766-6488	198-4920	4323
	24 Mar. (83)	5 Thus	1 5 18	15 Mar. (74)	3 Tues.	43-3004	702-6423	249-8023	4324
	24 Mar. (83)	6 Fri	1 7 17 27	4 Mar. (63)	0 Sat	9919-0233	549-8863	218-9792	4325

TABLE

1	-			201		w 4 m		
				CONCE	RRENT Y	EAR.		
		Brama.	(solar) year			Jovian Si	AMVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Suka.	Ch. itradi Vilerama.	Meshani (soli in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3a	4	5	6	7 -	8
4326	1147	1282	631	399-00	*1224-25	18 Tāraņa	22 Sarvadhārin ,	
4327	1148	1283	632	400-01	1225-26	19 Pārthiya .	23 Virôdhin .	
4328	1149	1284	633	401-02	1226-27	20 Vyaya	24 Vikrita	5 Śrāvaņa .
4329	1150	1285	634	€02-03	1227-28	21 Sarvajit .	25 Khara	3 w
4330	1151	1286	635	403-04	*1228-29	22 Sarvadhārin .	26 Nandana .	
4331	1152	1287	636	404-05	1229-30	23 Virôdhin .	27 Vijaya	3 Jyështha .
4332	1153	1188	637	405-06	1230-31	24 Vikrita	28 Jaya	
4333	1154	1289	638	405-07	1231-32	25 Khara	29 Manmatha	8 Kärttika }
4334	1155	1290	639	407-08	*1232-33	26 Nandana .	30 Durmukha .	1 Chaitra .
4335	1156	1291	640	408-09	1233-34	27 Vijaya	31 Hēmalamba .	***
4336	1157	1292	641	409-10	1234-35	28 Jaya	32 Vilamba .	5 Srāvaņa .
4337	1158	1293	642	410-11	1235-36	29 Manmatha .	33 Vikārin .	400
4338	1159	1294	643	411-12	*1236-37	30 Durmukha .	34 Sārvarin .	***
4339	1160	1295	644	412-13	1237-38	31 Hēmalamba .	35 Plava	4 Ashādha .
4340	1161	1296	645	413-14	1238-39	32 Vilamba .	36 Subhakrit .	
4341	1162	1297	646	414-15	1239-40	33 Vikārin .	37 Söbhana .	344
4342	1163	1298	647	415-16	*1240-41	34 Sărvarin .	38 Krödhin .	3 Jyöshtha .
4343	1164	1299	648	416-17	1241-42	35 Plays	39 Viávāvasu .	
4314	1165	1300	649	417-18	1242-43	36 Subhakrit .	40 Parābhava .	7 Asvina‡ .
4345	1166	1301	650	418-19	1243-44	37 Sõbhana .	41 Plavanga .	
4346	1167	1302	651	419-20	*1244-45	38 Krödhin .	42 Kīlaks	***************************************
4347	1168	1303	652	420-21	1245-46	39 Viávāvasu .	43 Saumya .	4 Āshādha .
4348	1169	1304	653	421-22	1246-47	40 Parábhaya .	45 Virolhakrit† .	,
4349	1170	1305	654	422-23	1247-48	41 Plavanga .	46 Paridhāvin .	100
4350	1171	1306	655	423-24	*1248-49	42 Kilaka	47 Pramādin .	3 Jyéshtha .
6				Want 1				

† 44 Sådhårana was suppressed in the south ‡ See Remarks, p. 163 above.

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COMMENCEMENT OF THE										
So	LAR YEAR.		LUNI-SOLAR	YEAR (MEA! CHAITRA	n sunrise o Sukla 1 en		wнисн	Kali vear.		
Day and month, A.D.	Week- day.	Time of true Mësha- samkränti.	Day and month, A.D.	Week-day.	a.	ь.	c.			
13	14	- 17	19	20	23	24	25	1		
		H. M. S.								
23 Mar. (83)	0 Sat	13 29 36	22 Mar. (82)	6 Fri	9953-7057	485-8798	270-2896	4326		
23 Mar. (82)	1 Sun.	19 41 45	11 Mar. (70)	3 Tues	9829-4286	333-1238	239-4064	4327		
24 Mar. (83)	3 Tues.	1 53 54	1 Mar. (60)	1 Sun	43-7834	216-6596	211-3809	4328		
24 Mar. (83)	4 Wed.	8 6 3	20 Mar. (79)	0 Sat	78*4658	152-6531	262-6914	4329		
23 Mar. (83)	5 Thur.	14 18 11	8 Mar. (68)	4 Wed	9954-1886	999-8970	231-8682	4330		
23 Mar. (82)	6 Fri	20 30 20	26 Feb. (57)	2 Mon.	168-5434	883-4328	203-7827	4331		
24 Mar. (83)	1 Sun	2 42 29	17 Mar. (76)	1 Sun	203-2258	819-4262	255-0931	4332		
24 Mar. (83)	2 Mon.	8 54 38	6 Mar. (65)	5 Thur.	78-9487	866-6703	224-2699	4333		
23 Mar. (83)	3 Tues.	15 6 47	23 Feb. (54)	2 Mon.	9954-6715	513-9144	193-4468	4334		
23 Mar. (82)	4 Wed.	21 18 56	13 Mar. (72)	1 Sun.	9989-3539	449-9078	244-7571	4335		
24 Mar. (83)	6 Fri.	3 31 4	2 Mar. (61)	5 Thur.	9865-0767	297-1519	213-9339	4336		
24 Mar. (83)	0 Sat	9 43 13	21 Mar. (80)	4 Wed.	9899-7592	233-1453	265-2439	4337		
23 Mar. (83)	1 Sun	15 55 22	9 Mar. (69)	1 Sun.	9775-4720	80-3894	234-4212	4338		
23 Mar. (82)	2 Mon. ,	22 7 31	27 Feb. (58)	6 Fri	9989-8369	963-9251	206-3357	4339		
24 Mar. (83)	4 Wed.	4 19 40	18 Mar. (77)	5 Thur.	24-5192	899-9186	257-6462	4340		
24 Mar. (83)	5 Thur.	10 31 49	8 Mar. (67)	3 Tues.	238-8741	783-4543	229-5607	4341		
23 Mar. (83)	6 Fri	16 43 57	25 Feb. (56)	0 Sat	114-5968	630-6983	198-7375	4342		
23 Mar. (82)	0 Sat	22 56 6	15 Mar. (74)	6 Fri.	149-2792	566-6918	250-0479	4343		
24 Mar. (83)	2 Mon.	5 18 5	4 Mar. (63)	3 Tues.	25-0021	413-9358	219-2248	4344		
24 Mar. (83)	3 Tues.	11 20 24	23 Mar. (82)	2 Mon.	59-9845	349-9293	270-5351	4345		
23 Mar. (83)	4 Wed.	17 32 33	11 Mar. (71)	6 Fri.	9935-4073	197-1733	239-7119	4346		
23 Mar. (82)	5 Thur.	23 41 42	28 Feb. (59)	3 Tues.	9811-1302	44-4174	208-8887	4347		
24 Mar. (83)	0 Sat	5 56 51	19 Mar. (78)	2 Mon.	9845-8126	980-4109	260-1992	4348		
24 Mnr. (83)	1 Sun	12 8 59	9 Mar. (68)	0 Sat .	60-1673	863-9465	232-1137	4349		
23 Mar (83)	2 Mon.	18 21 8	27 Feb. (58)	5 Thur.	274-5222	747-4823	204-0282	4350		

TABLE

3				-	CONTO	UDDDNE	FRADE		T
	Х				CONC	URRENT	EAR.		
	Kali.	Śaka.	Chaitradi Vikrama.	Möshädi (solar) year in Bengal.	Kollam,	A.D.	JOVIAN S Southern system.	Northern system.	Intercalated and suppressed (keh.) lunar months.
	1	- 2	3	30	4	5	6	7	8
		-		400	-	- 0			0
	4351	1172	1307	656	424-25	1249-50	43 Saumya .	48 Ananda .	1 28461VIII
	4352	1173	1308	657	425-26	1250-51	44 Sādhāraņa .	49 Rākshasa .	8 Kārttika ;
	4353	1174	1309	658	426-27	1251-52	45 Virôdhakrit .	50 Anala . ,	4
	4354	1175	1310	659	427-28	*1252-53	46 Paridhāvin .	51 Pińgala	Same - 27-41
	4355	1176	1311	660	428-29	1253-54	47 Pramādin	52 Kālsyukta ,	5 Srāvaņa .
	4356	1177	1312	661	429-30	1254-55	48 Ānanda .	53 Siddharthin .	7964
	4357	1178	1313	662	430-31	1255-56	49 Rākshasa .	54 Raudra .	
	4358	1179	1314	663	431-32	*1256-57	50 Anala	55 Durmati .	4 Ashādha .
	4359	1180	1315	664	432-33	1257-58	51 Pingala .	56 Dundubhi	
	4360	1181	1316	665	433-34	1258-59	52 Kālayukta .	57 Rudhirödgárin	11 m = 3
	4361	1182	1317	666	434-35	1259-60	53 Siddhärthin .	58 Raktāksha ,	2 Vaišākha .
e	4362	1183	1318	667	435-36	*1260-61	54 Raudra .	59 Krödhana	T. 11 (1)
	4363	1184	1319	668	436-37	1261-62	55 Durmati .	60 Kshaya	6 Bhādrapada
	4364	1185	1320	669	437-38	1262-63	56 Dundubhi .	1 Prabhava	*** = ±
	4365	1186	1321	670	438-39	1263-64	57 Rudhirödgärin	2 Vibhava .	
	4366	1187	1322	671	439-40	*1264-65	58 Raktāksha .	3 Sukla	4 Åshādha ,
	4367	1188	1323	672	440-41	1265-66	59 Krödhana ,	4 Pramôda ,	
	4368	1189	1324	673	441-42	1266-67	60 Kshaya .	5 Prajāpati ,	***
	4369	1190	1325	674	442-43	1267-68	1 Prabhava .	6 Aŭgiras .	3 Jyeshtha
	4370	1191	1326	675	443-44	*1268-69	2 Vibhava .	7 Srimukha	
	4371	1192	1327	676	444-45	1269 70	3 Sukla .	8 Bhāva	8 Kārttika ,
	4372	1193	1328	677	445-46	1270-71	4 Pramôda .	9 Yuvan	E sweet term
	4373	1194	1329	678	446-47	1271-72	5 Prajšpati .	10 Dhātçi	
	4374	1195	1330	679	447-48	*1272-73	6 Angiras .	11 Iśvara	5 Srāvaņa .
	4375	1196	1331	630	448-49	1273,74	7 Srimukha .	12 Bahudhānya .	
	-		-						

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		COMM	ENCEMENT O	F THE			1 2-1	
Sc	CLAR YEAR.		Luni-solar	YEAR (MEA CHATTRA É	N SUNRISE (which	Kali year.
Day and month, A.D.	Week- day.	Time of true Mësha- samkränti.	Day and month, A.D.	Week- day.	ď.	b.	c	3
13	14	17	19	20	23	24	25	1
		H. M. S.						
24 Mar. (83)	4 Wed.	0 33 17	17 Mar. (76)	4 Wed.	309-2046	683-4757	255-3387	4351
24 Mar. (83)	5 Thur.	6 45 26	6 Mar. (65)	1 Sun	184-9274	530-7198	224-4769	4352
24 Mar. (83)	6 Fri.	12 57 35	24 Mar. (83)	6 Fri	9880-9778	430-4577	273-0881	4353
23 Mar. (83)	0 Sat	19 9 44	12 Mar. (72)	3 Tues.	9756-7007	277-6657	242-2263	4354
24 Mar. (83)	2 Mon.	1 21 52	2 Mar. (61)	1 Sun.	9971-0555	161-2014	214-1795	4355
24 Mar. (83)	3 Tues.	7 34 I	21 Mar. (80)	0 Sat	5-7379	97-1948	265-4799	4356
24 Mar. (83)	4 Wed.	13 46 10	10 Mar. (69)	4 Wed.	9881-4607	944-4389	234-6667	4357
23 Mar. (83)	5 Thur.	19 58 19	28 Feb. (59)	2 Mon.	95-8156	827-9746	206-5812	4358
24 Mar. (83)	0 Sat	2 10 28	18 Mar. (77)	1 Sun	130-4880	763-9681	257-8917	4359
24 Mar. (83)	1 Sun	8 22 37	7 Mar. (66)	5 Thur.	6-2208	611-2122	227-0685	4360
24 Mar. (83)	2 Mon.	14 34 45	24 Feb. (55)	2 Mon.	9881-9436	458-4562	196-2453	4361
23 Mar. (83)	3 Tues.	20 46 54	14 Mar. (74)	1 Sun.	9916-6261	394-4497	247:5556	4362
24 Mar. (83)	5 Thur.	2 59 3	3 Mar. (62)	5 Thur.	9792-3488	241-6938	216-7225	4363
24 Mar. (83)	6 Fri	9 11 12	22 Mar. (81)	4 Wed.	9827-0312	177-6872	268-0439	4364
24 Mar. (83)	0 Sat	15 23 21	12 Mar. (71)	2 Mon.	41-3861	61-2229	239-9575	4365
23 Mar. (83)	1 Sun	21 35 30	29 Feb. (60)	6 Fri	9917-1090	908-4669	209-1342	4366
24 Mar. (83)	3 Tues.	3 47 38	19 Mar. (78)	5 Thur.	9951-7913	844-4605	260-4447	4367
24 Mar. (83)	4 Wed.	9 59 47	9 Mar. (68)	3 Tues,	166-1461	727-9961	232-3593	4368
24 Mar. (83)	5 Thur.	16 11 56	26 Feb. (57)	0 Sat	41-8690	575-2401	201-5360	4369
23 Mar. (83)	6 Fri	22 24 5	16 Mar. (76)	6 Fri.	76-5513	511-2337	252-8464	4370
24 Mar. (83)	1 Sun.	4 36 14	5 Mar. (64)	3 Tues.	9952-2742	358-4777	222-0232	4371
24 Mar. (83)	2 Mon.	10 28 23	24 Mar. (83)	2 Mon.	9986-9566	294-4712	273-3337	4372
24 Mar. (83)	3 Tues.	17 0 32	13 Mar. (72)	6 Fri.	9862 6705	141-7152	242-5105	4373
23 Mar. (83)	4 Wed.	23 17 40	2 Mar. (62)	4 Wed.	77-0342	25:2509	214 4256	4374
21 Mar. (83)	6 Pri	5 24 49	21 Mar. (80)	3 Tues.	111-7167	931-2444	265:7354	4578

TABLE

	Saka.	Tkrama.	year	1	CONCURRENT YEAR.													
-		Chaitradi Vikrama.	Mēshādi (solar) in Bengal.	Kollam.	A. D.	Jovian Sa Southern system.	Northern system.	Intercalated and suppressed (ksh.) lunar months.										
1	2	3	3a	4	ő	6	7	8										
4376	1197	1332	681 682	449-50 450-51	1274-75	8 Bhāva	13 Pramāthin . 14 Vikrama .	 4 Āsbādha										
4378	1199	1334	683	451-52	*1276-77	10 Dhātri	15 Vrisha											
4379	1200	1335	684	452-53	1277-78	11 Iśvara	16 Chitrabhanu .											
4380	1201	1336	685	453-54	1278-79	12 Bahudhānya .	17 Subhānu .	2 Vaišākha .										
4381	1202	1337	686	454-55	1279-80	13 Pramāthin .	18 Tāraņa											
4382	1203	1338	687	455-56	*1280-81	14 Vikrama .	19 Pārthiva .	6 Bhadrapada										
4383	1204	1339	688	456-57	1281-82	15 Vrisha	20 Vyaya											
4384	1205	1340	689	457-58	1282-83	16 Chitrabhānu	21 Sarvajit .											
4385	1206	1341	690	458-59	1283-84	17 Subhānu .	22 Sarvadhārin .	4 Åshādha										
4386	1207	1342	691	459-60	*1284-85	18 Tāraņa	23 Virðdhin .	***										
4387	1208	1343	692	460-61	1285-86	19 Pärthiva ,	24 Vikrita	Wat										
4388	1209	1344	693	461-62	1286-87	20 Vyaya .	25 Khara	3 Jyeshtha										
4389	1210	1345	694	462-63	1287-88	21 Sarvajit ,	26 Nandana	***										
4390	1211	1346	695	463-64	*1288-89	22 Sarvadhārin ,	27 Vijaya	8 Kärttika .										
4391	1212	1347	696	464-65	1289-90	23 Virðdhin ,	28 Jaya											
4392	1213	1348	697	465-66	1290-91	24 Vikrita	27 Manmatha											
4393	1214	1349	698	466-67	1291-92	25 Khara . ,	30 Durmukha .	5 Srāva										
4394	1215	1350	699	467-68	*1292-93	26 Nandan: .	31 Hēmalamba .											
4395	1216	1351	700	468-69	1293-94	27 Vijaya	32 Vilamba											
4396	1217	1352	701	469-70	1294-95	28 Jaya	33 Vikārin	4 Åshādha .										
4397	1218	1353	702	470-71	1295-96	29 Manmatha .	34 Sārvarm .	***										
4398	1219	1354	703	471-72	*1296-97	30 Durmukha .	35 Plava , .	T TILLIE										
4399	1220	1355	704	472-73	1297-98	31 Hēmalamba .	36 Subhakrit .	2 Vaišākha .										
4400	1221	1356	705	473-74	1298-99	32 Vilamba	37 Söbhana .	***										

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	45	COMN	MENCEMENT O	F THE	annulus.					
S	OLAB YEAR.		LUNI-SOLAR	LUNI-SOLAR YEAR (MEAN SUNRISE OF DAY ON WHICH CHAITRA SUKLA I ENDS).						
Day and month, A.D.	Week-day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	d.	ь.	6	year.		
13	14	17	19	20	23	24	25	1		
24 Mar. (83)	0 Sat .	H. M. S. 11 36 58	10 Mar. (69)	0 Sat	9987-4395	808-4884	234-9123	4376		
24 Mar. (83)	1 Sun.	17 49 7	28 Feb. (59)	5 Thur.	201-7943	692-0241	206-8268	4377		
24 Mar. (84)	3 Tues.	0 1 16	18 Mar. (78)	4 Wed.	236-4767	628-0176	258-1372	4378		
24 Mar. (83)	4 Wed.	6 13 25	7 Mar. (66)	1 Sun	112-1996	475-2617	227-3140	4379		
24 Mar. (83)	5 Thur.	12 25 33	24 Feb. (55)	5 Thur.	9987-9224	322-5057	196-4909	4380		
24 Mar. (83)	6 Fri	18 37 42	15 Mar. (74)	4 Wed.	22-6048	258-4092	247-8012	4381		
24 Mar. (84)	1 Sun. ,	0 49 51	3 Mar. (63)	1 Sun	9898-3276	105:7433	216-9780	4382		
24 Mar. (83)	2 Mon. ,	7 2 0	22 Mar. (81)	0 Sat.	9933-0100	41-7367	268-2884	4383		
24 Mar. (83)	3 Tues.	13 14 9	12 Mar. (71)	5 Thur.	147-3648	925-2684	240-2031	4384		
24 Mar. (83)	4 Wed.	19 26 18	1 Mar. (60)	2 Mon.	23-0877	772-5164	209-3798	4385		
24 Mar. (84)	6 Fri	1 38 26	19 Mar. (79)	1 Sun	57-7700	707-5099	260-6902	4386		
24 Mar. (83)	0 Sat	7 50 35	8 Mar. (67)	5 Thur.	9933-4930	355-7540	229-8670	4387		
24 Mar. (83)	1 Sun	14 2 44	25 Feb. (56)	2 Mon	9809 2157	402-9980	199-0438	4388		
24 Mar. (83)	2 Mon	20 14 53	16 Mar. (75)	1 Sun	9843-8981	338-9914	250-4042	4389		
24 Mar. (84)	4 Wed.	2 27 2	4 Mar. (64)	5 Thur.	9719-6210	186-2355	219-5310	4390		
24 Mar. (83)	5 Thur.	8 39 11	23 Mar. (82)	4 Wed.	9754-3934	122-2308	270-8414	4391		
24 Mar. (83)	6 Fri	14 51 19	13 Mar. (72)	2 Mon	9968-6582	5-7647	242-7560-	4392		
24 Mar. (83)	0 Sat	21 3 28	3 Mar. (62)	0 Sat	183-0130	889-3004	214-6706	4393		
24 Mar. (84)	2 Mon	3 15 37	21 Mar. (81)	6 Fri	217-6855	825-2939	265-9809	4394		
24 Mar. (83)	3 Tues.	9 27 46	10 Mar. (69)	3 Tues.	93-4182	672-5380	235-1578	4395		
24 Mar. (83)	4 Wed.	15 39 55	27 Feb. (58)	0 Sat	9969-1412	519-7820	204-3346	4396		
24 Mar. (83)	5 Thur.	21 52 4	18 Mar. (77)	6 Fri	3-8235	455-7754	255-6450	4397		
24 Mar. (84)	0 Sat	4 4 12	6 Mar. (66)	3 Tues.	9879-5463	303-0195	221-8217	4398		
24 Mar. (83)	1 Sun	10 16 21	23 Feb. (54)	0 Sat	9755-2691	150-2636	193-9986	4399		
24 Mar. (83)	2 Mon	15 28 30	14 Mar. (73)	6 Fri	9789-9516	86-2571	245-2990	4400		

TABLE

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				CONCU	RRENT Y	EAR.		
142		krama.	ar) year		11-1	Jovian Sa	MVATSABA.	Intercalated and suppressed (ksh.) lunar
Kali.	Śaka.	Chaitradi Vikrama.	Mēshādi (solar) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3a	4	5	6	7	8
-		-						7
4401	1222	1357	706	474-75	1299-1300	33 Vikārin .	38 Krödhin .	6 Bhādrapada
4402	1223	1358	707	475-76	*1300-01	34 Särvarin .	39 Višvāvasu .	1 1884
4403	1224	1359	708	476-77	1301-02	35 Plava	40 Parābhava .	Martin Martin
4404	1225	1360	709	477-78	1302-03	36 Subhakrit .	41 Playanga .	4 Āshādha
4405	1226	1361	710	478-79	1303-04	37 Söbhana .	42 Kilaka	1000
4406	1227	1362	711	479-80	*1304-05	38 Krödhin .	43 Saumya .	(1044
4407	1228	1363	712	480-81	1305-06	39 Viávāvasu .	44 Sādhāraņa .	3 Jyeshtha .
4408	1229	1364	713	481-82	1306-07	40 Parabhava .	45 Virôdhakrit .	C 7 Āśvina.
4409	1230	1365	714	482-83	1307-08	41 Plavanga	46 Paridhāvin .	11 Magha(ksh).
4410	1231	1366	715	483-84	*1308-09	42 Kilaka	47 Pramādin .	12 Phalguna
4411	1232	1367	716	484-85	1309-10	43 Saumya	48 Ananda .	***
4412	1233	1368	717	485-86	1310-11	44 Sādhāraņa .	49 Rākshasa .	5 Śrāvaņa .
4413	1234	1369	718	486-87	1311-12	45 Virôdhakrit .	50 Anala	***
4414	1235	1370	719	487-88	*1312-13	46 Paridhāvin	51 Pingala .	
4415	1236	1371	720	488-89	1313-14	47 Pramādin .	52 Kálayukta .	4 Ashādha .
4416	1237	1372	721	489-90	1314-15	48 Ananda .	53 Siddhārthin ,	300
4417	1238	1373	722	490.91	1315-16	49 Rākshasa .	54 Raudra .	
4418	1239	1274	723	491-92	*1316-17	50 Anala	55 Durmati .	1 Chaitra† .
4419	1240	1375	724	492-93	1317-18	51 Pingala .	56 Dundubhi .	
4420	1241	1376	725	493-94	1318-19	52 Kālayukta .	57 Rudhirödgárin	6 Bhādrapada
4421	1242	1377	726	494-95	1319-20	53 Siddhârthin .	58 Raktāksha .	3944
4422	1243	1378	727	495-96	*1320-21	54 Raudra .	59 Krődhana .	1000
4423	1244	1379	728	496-97	1321-22	55 Durmati .	60 Kshaya .	4 Ashādha .
4424	1245	1380	729	497-98	1322-23	56 Dundubhi .	1 Prabhava ,	
4425	1246	1381	730	498-99	1323-24	57 Rudhirödgärin	2 Vibhava	
-	-	-						

† See Remarks, p. 163 above.

LX-Contd.

Day and month, A.D. Week-day. Time of true Méshasanikranti. Day and month, A.D. Week-day. day.		ta jerria	FTHE	ENCEMENT O	COMM			
Day and month, A.D. Week day. Safikranti. Day and month, A.D. day. Safikranti. Day and month, A.D. day. Safikranti. Day and month, A.D. day. Safikranti. Day and month, A.D. day. Safikranti. Day and month, A.D. day. Safikranti. Day and month, A.D. day. Safikranti. Safikranti. Day and month, A.D. day. Safikranti. Safikranti. Day and month, A.D. day. Safikranti.	witten 1				Solah Year.			
24 Mar. (83) 3 Tues. 22 40 39 4 Mar. (63) 4 Wed. 4 3064 969 7928 24 Mar. (84) 5 Thur. 4 52 48 22 Mar. (82) 3 Tues. 38 9888 905 7863 24 Mar. (83) 6 Fri. 11 4 57 12 Mar. (71) 1 Sun. 253 3437 789 3219 24 Mar. (83) 1 Sun. 23 19 14 20 Mar. (79) 4 Wed. 163 7489 572 5594 24 Mar. (84) 3 Tues. 5 41 23 8 Mar. (68) 1 Sun. 39 4718 419 803 5 24 Mar. (83) 4 Wed. 11 53 32 25 Feb. (56) 5 Thur. 9915 1945 267 0476 24 Mar. (84) 0 Sat. 0 17 50 5 Mar. (64) 1 Sun. 9825 5998 50 2851 24 Mar. (83) 2 Mon. 12 42 7 13 Mar. (72) 5 Thur. 74 6370 869 8142 24 Mar. (83) 3 Tues. 18 5 41 16 Mar. (72) 5 Thur. 74 6370 869 8142 24 Mar. (83) 3 Tues. 18 5 41 6 3 Mar. (62) 3 Tues. 288 9918 753 3499 25 Mar. (84) 6 Fri. 7 18 34 10 Mar. (70) 6 Fri. 199 3970 536 5875 24 Mar. (83) 1 Sun. 19 42 52 17 Mar. (70) 6 Fri. 199 3970 536 5875 24 Mar. (83) 1 Sun. 19 42 52 17 Mar. (70) 6 Fri. 199 3970 536 5875 24 Mar. (83) 1 Sun. 19 42 52 17 Mar. (70) 6 Fri. 199 3970 536 5875 24 Mar. (84) 3 Tues. 15 5 0 7 Mar. (66) 6 Fri. 9985 3251 167 0780 24 Mar. (83) 1 Sun. 19 42 52 17 Mar. (70) 6 Fri. 199 3970 536 5875 24 Mar. (84) 3 Tues. 15 5 0 7 Mar. (66) 6 Fri. 9985 3251 167 0780 24 Mar. (84) 4 Wed. 8 7 9 24 Feb. (55) 3 Tues. 9861 2476 14 3131 24 Mar. (83) 5 Thur. 14 19 18 14 Mar. (73) 2 Mon. 9895 9304 950 3066 24 Mar. (83) 6 Fri. 20 31 27 4 Mar. (63) 0 Sat. 110 2852 833 8423 25 Mar. (84) 1 Sun. 24 Mar. (83) 6 Fri. 20 31 27 4 Mar. (63) 0 Sat. 110 2852 833 8423 25 Mar. (84) 1 Sun. 24 Mar. (83) 6 Fri. 20 31 27 4 Mar. (63) 0 Sat. 110 2852 833 8423 25 Mar. (84) 1 Sun. 24 Mar. (83) 6 Fri. 20 31 27 4 Mar. (63) 0 Sat. 110 2852 833 8423 25 Mar. (84) 1 Sun. 24 Mar. (84) 2 Mon. 855 45 11 Mar. (71) 3 Tues. 20 7024 617 7098	c. 3.	ь.	a.			true Měsha-	The state of the s	
24 Mar. (83) 3 Tues. 22 40 39 4 Mar. (63) 4 Wed. 4 3064 969 7928 24 Mar. (84) 5 Thur. 4 52 48 22 Mar. (82) 3 Tues. 38 9888 905 7863 24 Mar. (83) 6 Frl. 11 4 57 12 Mar. (71) 1 Sun. 23 3437 789 3219 24 Mar. (83) 0 Sat. 17 17 6 1 Mar. (60) 5 Thur. 129 0655 636 5660 24 Mar. (83) 1 Sun. 23 19 14 20 Mar. (79) 4 Wed. 163 7489 572 5594 24 Mar. (84) 3 Tues. 5 41 23 8 Mar. (68) 1 Sun. 39 4718 419 8035 24 Mar. (83) 4 Wed. 11 53 32 25 Feb. (56) 5 Thur. 9915 1945 267 0476 24 Mar. (83) 5 Thur. 18 5 41 16 Mar. (75) 4 Wed. 9949 8769 203 0410 25 Mar. (84) 0 Sat. 0 17 50 5 Mar. (64) 1 Sun. 9852 5998 50 2851 24 Mar. (83) 2 Mon. 12 42 7 13 Mar. (72) 5 Thur. 74 6370 869 8142 24 Mar. (83) 3 Tues. 18 54 16 3 Mar. (62) 3 Tues. 288 9918 753 3499 25 Mar. (84) 5 Thur. 1 6 25 21 Mar. (80) 1 Sun. 9985 0423 653 0	25	24	23	20	19	17	14	13
24 Mar. (83) 1 Sun. 19 42 52 17 Mar. (76) 1 Sun. 9771-1703 283-5334 25 Mar. (84) 3 Tues. 1 55 0 7 Mar. (66) 6 Fri. 9985-5251 167-0780 24 Mar. (84) 4 Wed. 8 7 9 24 Feb. (55) 3 Tues. 9861-2476 14-3131 24 Mar. (83) 5 Thur. 14 19 18 14 Mar. (73) 2 Mon. 9895-9304 950-3066 24 Mar. (83) 6 Fri. 20 31 27 4 Mar. (63) 0 Sat. 110-2852 833-8423 25 Mar. (84) 1 Sun. 2 43 36 23 Mar. (82) 6 Fri. 144-9675 769-8358 24 Mar. (84) 2 Mon. 8 55 45 11 Mar. (71) 3 Tues. 20-7024 617-7098	217-1430 4 268-4534 4 249-3680 4 209-5447 4 260-8552 4 230-0320 4 199-2089 4 259-5181 4 219-6960 4 271-0064 4 242-9209 4 215-8355 4 263-4082 4 235-3128 4	905-7863 789-3219 636-5660 572-5594 419-8035 267-0476 203-0410 50-2851 986-2785 869-8142 753-3499 653-0518	38 9888 253 3437 129 0665 163 7489 39 4718 9915 1945 9949 8769 9825 5998 9860 2821 74 6370 288 9918 9985 0423	3 Tues. 1 Sun 5 Thur. 4 Wed. 1 Sun 5 Thur. 4 Wed. 1 Sun 0 Sat . 5 Thur. 3 Tues. 1 Sun	22 Mar. (82) 12 Mar. (71) 1 Mar. (60) 20 Mar. (79) 8 Mar. (68) 25 Feb. (56) 16 Mar. (75) 5 Mar. (64) 23 Mar. (83) 13 Mar. (72) 3 Mar. (62) 21 Mar. (80)	22 40 39 4 52 48 11 4 57 17 17 6 23 19 14 5 41 23 11 53 32 18 5 41 0 17 50 6 26 59 12 42 7 18 54 16 1 6 25	5 Thur. 6 Fri 0 Sat 1 Sun 3 Tues. 4 Wed. 5 Thur. 0 Sat 1 Sun 2 Mon 3 Tues. 5 Thur.	24 Mar. (84) 24 Mar. (83) 24 Mar. (83) 24 Mar. (83) 24 Mar. (84) 24 Mar. (83) 25 Mar. (84) 24 Mar. (84) 24 Mar. (83) 25 Mar. (84) 24 Mar. (83) 26 Mar. (84)
25 Mar. (84) 3 Tues. 1 55 0 7 Mar. (66) 6 Fri 9985-5251 167/0780 24 Mar. (84) 4 Wed. 8 7 9 24 Feb. (55) 3 Tues. 9861-2476 14-3131 24 Mar. (83) 5 Thur. 14 19 18 14 Mar. (73) 2 Mon 9895-9304 250-3066 24 Mar. (83) 6 Fri 20 31 27 4 Mar. (63) 0 Sat 110-2852 833-8423 25 Mar. (84) 1 Sun 2 43 36 23 Mar. (82) 6 Fri 144-9675 769-8358 24 Mar. (84) 2 Mon 8 55 45 11 Mar. (71) 3 Tues. 20-7024 617-7098	204-4995 4	383-8315	75-1199	Moresonia	ARMITTANA TABLE	W =200 /HCE	I M. P. Walleton	
24 Mar. (83) 5 Thur. 14 19 18 14 Mar. (73) 2 Mon. , 9895-9304 950-3066 24 Mar. (83) 6 Fri. , 20 31 27 4 Mar. (63) 0 Sat. , 110-2852 833-8423 25 Mar. (84) 1 Sun. , 2 43 36 23 Mar. (82) 6 Fri. , 144-9675 769-8358 24 Mar. (84) 2 Mon. , 8 55 45 11 Mar. (71) 3 Tues. 20-7024 617-7098	253-0721 4 234-9867q 4 194-1636 4	167-0780	9985-5251	6 Fri	7 Mar. (66)	1 55 0	3 Tues.	25 Mar. (84)
25 Mar. (84) 1 Sun 2 43 36 23 Mar. (82) 6 Fri 144-9675 769-8358 24 Mar. (84) 2 Mon 8 55 45 11 Mar. (71) 3 Tues. 20-7024 617-7098	245-4739 4 217-2885 4	T0077000000000000000000000000000000000		11011200	A CAPACITATION	110 A 1 1 10 10 10 10 10 10 10 10 10 10 10 10	400	24 Mar. (83)
24 Mar. (83) 3 Tues. 15 7 54 28 Feb. (59) 0 Sat 9896·3133 464·3239	268-6989 4 237-8758 4	DESCRIPTION OF	1925000000	100 miles	Leaven American Company	100 1100 1100	11100000	
24 Mar. (83) 4 Wed. 21 20 2 19 Mar. (78) 6 Fri 9931-0956 500-3174 25 Mar. (84) 6 Fri 3 12 11 8 Mar. (67) 3 Tues. 9806-8185 247-5614	207-0525 (258-3619 (227-5397 (500-3174	9931-0956	6 Fri	19 Mar. (78)	21 20 2	4 Wed.	24 Mar. (83)



TABLE

Kali. Saka.	Intercalated and suppressed (ksh.) lunar months.
1 2 3 3a 4 5 6 7 4426 1247 1382 731 499-500 *1324-25 58 Raktāksha 3 Sukla 3 4427 1248 1383 732 500-01 1325-26 59 Krōdhana 4 Pramōda 4428 1249 1384 733 501-02 1326-27 60 Kshaya 5 Prajāpati 6 4429 1250 1385 734 502-03 1327-28 1 Prabhava 6 Angiras 4430 1251 1386 735 503-04 *1328-29 2 Vibhava 7 Šrfmukha 4431 1252 1387 736 504-05 1329-30 3 Šukla 8 Bhāva 3 4432 1253 1388 737 505-06 1330-31 4 Pramōda 9 Yuvan† .	
4426 1247 1382 731 409-500 *1324-25 58 Raktāksha 3 Sukla . 4427 1248 1383 732 500-01 1325-26 59 Krödhana 4 Pramöda . 4428 1249 1384 733 501-02 1326-27 60 Kshaya 5 Prajāpati . 4429 1250 1385 734 502-03 1327-28 1 Prabhava 6 Angiras 4430 1251 1386 735 503-04 *1328-29 2 Vibhava 7 Šrīmukha 4431 1252 1387 736 504-05 1329-30 3 Šukla . 8 Šhāva . 4432 1253 1388 737 505-06 1330-31 4 Pramöda 9 Yuvan† .	in the last
4427 1248 1383 732 500-01 1325-26 59 Krödhana 4 Praměda . 4428 1249 1384 733 501-02 1326-27 60 Kshaya . 5 Prajápati . 4429 1250 1385 734 502-03 1327-28 1 Prabhava . 6 Angiras . 4430 1251 1386 735 503-04 *1328-29 2 Vibhava . 7 Šrfmukha . 4431 1252 1387 736 504-05 1329-30 3 Šukla . 8 Šhāva . . 4432 1253 1388 737 505-06 1330-31 4 Praměda . 9 Yuvan† .	8
4427 1248 1383 732 500-01 1325-26 59 Krödhana 4 Praměda . 4428 1249 1384 733 501-02 1326-27 60 Kshaya . 5 Prajápati . 4429 1250 1385 734 502-03 1327-28 1 Prabhava . 6 Angiras . 4430 1251 1386 735 503-04 *1328-29 2 Vibhava . 7 Šrfmukha . 4431 1252 1387 736 504-05 1329-30 3 Šukla . 8 Šhāva . 3 4432 1253 1388 737 505-06 1330-31 4 Praměda . 9 Yuvan† .	
4428 1249 1384 733 501-02 1326-27 60 Kshaya 5 Prajāpati 6 4429 1250 1385 734 502-03 1327-28 1 Prabhava 6 Angiras 4430 1251 1386 735 503-04 *1328-29 2 Vibhava 7 Šrfmukha 4431 1252 1387 736 504-05 1329-30 3 Šukla 8 Šhāva 8 4432 1253 1388 737 505-06 1330-31 4 Pramōda 9 Yuvan† .	2 Vaišākha .
4429 1250 1385 734 502-03 1327-28 1 Prabhava 6 Angiras 4430 1251 1386 735 503-04 *1328-29 2 Vibhava 7 Śrfmukha 4431 1252 1387 736 504-05 1329-30 3 Śukla 8 Śhāva 8 4432 1253 1388 737 505-06 1330-31 4 Pramōda 9 Yuvan†	***
4430 1251 1386 735 503-04 *1328-29 2 Vibhava . 7 Šržmukha . 4431 1252 1387 736 504-05 1329-30 3 Šukla . 8 Šhāva . . 4432 1253 1388 737 505-06 1330-31 4 Pramoda . 9 Yuvan† .	6 Bhādrapada
4431 1252 1387 736 594-05 1329-30 3 Šukla 8 Šhāva 8 4432 1253 1388 737 505-06 1339-31 4 Pramoda . 9 Yuvan† .	
4432 1253 1388 737 505-06 1330-31 4 Pramoda . 9 Yuvan† .	11 14
	5 Śrāvaņa .
4433 1254 1389 738 506-07 1331-32 5 Prajāpati . 11 Išvara	7444
	200
4434 1255 1390 739 507-08 *1332-33 6 Angiras . 12 Bahudhānya . 3	3 Jyéshtha .
4435 1256 1391 740 508-09 1333-34 7 Srimukha . 13 Pramathin .	377
4436 1257 1392 741 509-10 1334-35 8 Bhāva 14 Vikrama .	
4437 1258 1393 742 510-11 1335-36 9 Yuvan . , 15 Vrisha	2 Vaišākha
4438 1259 1394 743 511-12 *1336-37 10 Dhātri 16 Chitrabhānu .	244
4439 1260 1395 744 512-13 1337-38 11 Išvara 17 Subhānu 6	6 Bhādrapada
4440 1261 1396 745 513-14 1338-39 12 Bahudhanya . 18 Tarapa	i en
4441 1262 1397 746 514-15 1339-49 13 Pramāthin . 19 Pārthiva .	***
4442 1263 1398 747 515-16 *1340-41 14 Vikrama . 20 Vyaya 4	4 Āshādha ,
4443 1264 1399 748 516-17 1341-42 15 Vrisha 21 Sarvajit	1924-100-
4444 1265 1400 749 517-18 1342-43 16 Chitrabhānu . 22 Sarvadhārin .	1966
4445 1266 1401 750 518-19 1343-44 17 Subhānu . 23 Vīrodhīn . 2	2 Valéakha .
4446 1267 1402 751 519-20 *1344-45 18 Tāraņa 24 Vikrita	(444
4447 1268 1403 752 520-21 1345-46 19 Parthiva . 25 Khara 6	6 Bhādrapada
4448 1269 1404 753 521-22 1346-47 20 Vyaya 26 Nandana .	
4449 1270 1405 754 522-23 1347-48 21 Sarvajit . 27 Vijaya	
4450 1271 1406 755 523-24 *1348-49 22 Sarvadhārin . 28 Jaya 5	(500)

^{† 10} Dhatri was suppressed in the north.

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					ENCEMENT O	COMM	100	
Kali year.	WHICH	DF DAY ON 'DS).	SURLA 1 EN	LUNI-SOLAR	13	DLAR YEAR.	S	
	c.	6.	a.	Week- day.	Day and month, A.D.	Time of true Mësha- samkranti.	Week- day.	Day and month, A.D.
1	25	24	23	20	19	17	14	13 -
4426	199-4543	131-6971	21-1733	1 Sun.	26 Feb. (57)	H. M. S. 9 44 20	0 Sat.	04 Way (81)
4427	250-7647	67-0905	58-8557	0 Sat.	16 Mar. (75)	15 56 29	Ser Marini, Col.	24 Mar. (84)
4428	219-9415	914-3346	9931-5785	4 Wed.	5 Mar. (64)	22 8 38	1 Sun	24 Mar. (83)
4429	271-2519	850-3281	9966-2609	3 Tues.	24 Mar. (83)	4 20 47	4 Wed.	24 Mar. (83)
4430	243-1665	733-8637	180-6158	1 Sun.	13 Mar. (73)	10 32 55	5 Thur.	25 Mar. (84)
4431	212-3433	581-1079	56-3286	5 Thur.	2 Mar. (61)	16 45 4	Value of	24 Mar. (84)
4435	263-7537	517:1013	91-0210	4 Wed.	21 Mar. (80)	22 57 13	6 Frt. ,	24 Mar. (83)
4433	232-8305	364-3453	9966-7438	1 Sun-	10 Mar (69)	5 9 22	2 Mon	24 Mar. (83)
443	202-0073	211-5894	9842-4667	5 Thur.	27 Feb. (58)	11 21 31	3 Tues.	25 Mar. (84)
443	253-3177	147-5829	9877-1490	4 Wed.	17 Mar. (76)	17 33 40	4 Wed.	24 Mar. (84) 24 Mar. (83)
443	225-2422	31-1186	91-5129	2 Mon.	7 Mar. (66)	23 45 48	5 Thur.	24 Mar. (83)
443	194-4091	878-3626	9967-2267		24 Feb. (55)	5 57 57	0 Sat	25 Mar. (84)
443	245-7195	814-3561	-8992	5 Thur	14 Mar. (74)	12 10 6	1 Sun	24 Mar. (84)
443	217-5941	697-8918	216-2639	3 Tues	4 Mar. (63)	18 22 15	2 Mon.	24 Mar. (83)
444	268-9445	634-8853	250-9463	2 Mon	23 Mar. (82)	0 34 24	4 Wed	25 Mar. (84)
444	238-1213	481-1293	126-6692	6 Fri	12 Mar. (71)	6 46 33	5 Thur.	25 Mar. (84)
444	207-2981	328-3733	2-3920	3 Tues	29 Feb. (60)	12 58 42	6 Fri.	24 Mar. (84)
444	258-6085	264-3669	37-0744	2 Mon	19 Mar. (78)	19 10 50	0 Sat.	24 Mar. (83)
444	227-7853	111-6109	9912-7973	6 Fri	8 Mar. (67)	1 22 59	2 Mon. ,	25 Mar. (84)
444	199-6995	995-1466	127-1521	4 Wed	26 Feb. (57)	7 35 8	3 Tues	25 Mar. (84)
444	251-0102	931-1400	161-8344	3 Tues.	16 Mar. (76)	13 47 17	4 Wed	24 Mar. (84)
444	220-1871	778-3841	37-5573	0 Sat.	5 Mar. (64)	19 59 26	5 Thur.	24 Mar. (83)
444	271-4975	714-3776	72-2397	6 Fri	24 Mar. (83)	2 11 35	0 Sat	25 Mar. (84)
444	240-6743	561-6216	9947-9625	3 Tues.	13 Mar. (72)	8 23 43	1 Sun.	25 Mar. (84)
445	209-8510	408-8657	9823-6854	0 Sat	1 Mar. (61)	14 35 52	2 Mon	24 Mar. (84)

TABLE

-						7. 5	-	
	J.	- 1		CONCU	RRENT Y	EAR.		
Z INU		krama.	ar) year	111,71	A PARTY	Jovian Sa	MVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali,	Śaka.	Chaitrādi Vikrama.	Meshādi (solar) y in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3a	4	5	6	7	8
4451	1272	1407	756	524-25	1349-50	23 Virôdhin	29 Manmatha .	Service
4452	1273	1408	757	525-26	1350-51	24 Vikrita	30 Durmukha	See 9
4453	1274	1409	758	526-27	1351-52	25 Khara	31 Hēmalamba .	3 Jyështha .
4454	1275	1410	759	527-28	*1352-53	26 Nandana .	32 Vilamba .	7944
4455	1276	1411	760	528-29	1353-54	27 Vijaya	33 Vikārin {	8 Kärttika 9 Märgaš (ksh.)
4456	1277	1412	761	529-30	1354-55	28 Jaya	34 Śārvarin .	2 Vaišākha
4457	1278	1413	762	530-31	1355-56	29 Manmatha ,	35 Plava	300
4458	1279	1414	763	531-32	*1356-57	30 Durmukha .	36 Subhakrit .	6 Bhādrapada .
1459	1280	1415	764	532-33	1357-58	31 Hēmalamba .	37 Śōbhana .	
4460	1281	1416	765	533-34	1358-59	32 Vilamba .	38 Krödhin .	(444
4461	1282	1417	766	534-35	1359-60	33 Vikārin .	39 Viávāvanu .	4 Āshādha .
4462	1283	1418	767	535-36	*1360-61	34 Šārvarin .	40 Parabhava .	444
4463	1284	1419	768	536-37	1361-62	35 Plava	41 Plavanga .	
4464	1285	1420	769	537-38	1362-63	36 Subhakrit .	42 Kīlaka .	2 Vaišākha .
4465	1286	1421	770	538-39	1363-64	37 Söbhana	43 Saumya .	7915
4466	1287	1422	773	539-40	*1364-65	38 Krödhin .	44 Sādhāraņa	6 Bhādrapada .
4467	1288	1423	772	540-41	1365-66	39 Višvāvasu ,	45 Virôdhakrit .	200
4468	1289	1424	773	541-42	1366-67	40 Parabhava .	46 Paridhāvin .	***
4469	1290	1425	774	542-43	1367-68	41 Plavanga .	47 Pramādin .	5 Śrāvaņa .
4470	1291	1426	775	543-44	*1368-69	42 Kilaka	48 Ānanda .	100
4471	1292	1427	776	544-45	1369-70	43 Saumya ,	49 Rākshasa ,	107622
4472	1293	1428	777	545-46	1370-71	44 Sādhāraņa .	50 Anala	3 Jyështha .
4473	1294	1429	778	546-47	1371-72	45 Virödhakrit .	51 Pingala .	***
4474	1295	1430	779	547-48	*1372-73	46 Paridhāvin .	52 Kälayukta	7 Aávina
4475	1296	1431	780	548-49	1373-74	47 Pramādin .	53 Siddhārthin	10 Pausha (ksh.) 3 1 Chaitra

LX-Contd.

		COM	IENCEMENT O	F THE	Tal III				
S	OLAR YEAR.		LUNI-SOLAR YEAR (MEAN SUREISE OF DAY ON WHICH CHAITRA SURLA 1 ENDS).						
Day and month, A.D.	Week- day.	Time of true Mēsha- samkrānti.	Day and month, A.D.	Week- day.	a.	6.	c.		
13	14	17	19	20	21	24	25	1	
		H. M. S.							
24 Mar. (83)	3 Tues	20 48 1	20 Mar. (79)	6 Fri.	9858-3678	344-8591	261-1615	4451	
25 Mar. (84)	5 Thur.	3 0 10	9 Mar. (68)	3 Tues	9734-0906	192-0932	230-3383	4452	
25 Mar. (84)	6 Fri	9 12 19	27 Feb. (58)	1 Sun	9948-4454	75-6749	202-2528	4453	
24 Mar. (84)	0 Sat.	15 24 28	17 Mar. (77)	0 Sat	9983-1278	11-6324	253-5632	4454	
24 Mar. (83)	1 Sun	21 36 36	7 Mar. (66)	5 Thur.	197-4827	895-1681	225-4778	4455	
25 Mar. (84)	3 Tues	3 48 45	24 Feb. (55)	2 Mon	73-2054	742-4122	194-6547	4456	
25 Mar. (84)	4 Wed	10 0 54	15 Mar. (74)	1 Sun. ,	107-8879	678-4056	245:9650	4457	
24 Mar. (84)	5 Thur.	16 13 3	3 Mar. (63)	5 Thur.	9983-6107	526-6596	215-1418	4458	
24 Mar. (83)	6 Fri	22 25 12	22 Mar. (81)	4 Wed.	18-2932	461-6431	266-4522	4459	
25 Mar. (84)	1 Sun	4 37 21	11 Mar. (70)	1 Sun	9894-0159	309-8872	235-6291	4460	
25 Mar. (84)	2 Mon	10 49 29	28 Feb. (59)	5 Thur.	9769-7388	156-1313	204-8058	4461	
24 Mar. (84)	3 Tues	17 1 38	18 Mar. (78)	4 Wed	9804-4212	92-1247	256-1162	4462	
24 Mar. (83)	4 Wed	23 13 47	8 Mar. (67)	2 Mon	18-7760	975-6605	228-0308	4463	
25 Mar. (84)	6 Fri	5 25 56	26 Feb. (57)	0 Sat	233-1308	859-1961	199-9454	4464	
25 Mar. (84)	0 Sat	11 38 5	17 Mar. (76)	6 Fri	267-8132	795-1896	251-2558	4465	
24 Mar. (84)	1 Sun	17 50 14	5 Mar. (65)	3 Tues.	143-5361	642-4536	220-4326	4466	
25 Mar. (84)	3 Tues	0 2 23	24 Mar. (83)	2 Mon	178-2184	578-4271	271-7430	4467	
25 Mar. (84)	4 Wed	6 14 31	13 Mar. (72)	6 Fri	53-9413	425-6712	240-9199	4468	
25 Mar. (84)	5 Thur.	12 26 40	2 Mar. (61)	3 Tues	9929-6642	272-9152	213-0966	4469	
24 Mar. (84)	6 Fri	18 38 49	20 Mar. (80)	2 Mon	9964-3465	208-9087	261-4070	4470	
25 Mar. (84)	1 Sun	0 50 58	9 Mar (68)	6 Fri	9840-0694	56-1527	230-5838	4471	
25 Mar. (84)	2 Mon. ,	7 3 7	27 Feb. (58)	4 Wed.	54-4242	939-6884	202-4984	4472	
25 Mar. (84)	3 Tues	13 15 16	18 Mar. (77)	3 Tues.	89-1066	875-6819	253-8088	4473	
24 Mar. (84)	4 Wed	19 27 24	7 Mar. (67)	1 Sun	303-4614	759-2176	225-7233	4474	
25 Mar. (84)	6 Fri	1 39 33	24 Feb. (55)	5 Thur.	179-1842	606-4617	194-9002	4475	

TABLE

	- 10			-				
				CONCU	RRENT Y	EAR.		
		krama.	lar) year		Harris (JOVIAN S.	AMVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Saka.	Chaitradi Vikrama.	Meshadi (solar) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3a	4	5	6	7	8
120000	2000	1000000	OHATE	- CONTRACT		40 T 10 T	54 Raudra	
4476	1297	1432	781	549-50	1374-75	48 Ananda .	527277 CHUNN	6 Bhādrapada
4477	1298	1433	782	550-51	1375-76	49 Rākshasa .	55 Durmati .	A
4478	1290	1434	783	551-52	*1376-77	50 Anala	56 Dundubhi .	***
4479	1300	1435	784	552-53	1377-78	51 Pingala .	57 Rudhirödgärin	***
4480	1301	1436	785	553-54	1378-79	52 Kālayukta .	58 Raktāksha .	4 Āshādha .
4481	1302	1137	786	554-55	1379-80	53 Siddhārthin .	59 Krödhana .	***
4482	1303	138	787	555-56	*1380-81	54 Raudra .	60 Kshaya .	222
4483	1304	1439	788	556-57	1381-82	55 Durmati .	1 Prabhava .	2 Valšākha .
4484	1305	1440	789	557-58	1382-83	56 Dundubhi .	2 Vibhava	***
4485	1396	1441	790	558-59	1383-84	57 Rudhirödgária	3 Šukla	6 Bhādrapada
4486	1307	1442	791	559-60	*1384-85	58 Raktāksha .	4 Pramôda .	***
4487	1308	1443	792	580-61	1385-86	69 Krödhana .	5 Prajāpati .	710
4488	1309	1444	793	561-62	1386-87	60 Kshaya .	6 Angiras .	4 Åshådha .
4489	1310	1445	794	562-63	1387-88	1 Prabhava .	7 Śrimukha .	
4490	1311	1446	795	563-64	*1388-89	2 Vibhava .	8 Bhāva .	
4491	1312	1447	796	564-65	1389-90	3 Śukla	9 Yuvan	3 Jyeshtha .
4492	1313	1448	797	565-66	1390-91	4 Pramoda .	10 Dhātri .	***
4493	1314	1449	798	566-67	1391-92	5 Prajāpati .	11 Iávara	7 Asvina
4494	1315	1450	799	567-68	* 1392-93	6 Angiras .	12 Bahudhānya .	40
4495	1316	1451	800	568-69	1393-94	7 Śrimukha .	13 Pramāthin .	From som
4496	1317	1452	801	569-70	1394-95	8 Bhāva	14 Vikrama .	5 Śrāvaņa .
4497	1318	1453	802	570-71	1335-96	9 Yuvan	15 Vrisha	
4498	1319	1454	803	571-72	*1396-97	10 Dhātri	16 Chitrabbanu .	
4499	1320	1455	804	572-73	1397-98	11 Išvara	17 Subbānu .	4 Āshādha .
4500	1321	1456	805	573-74	1398-99	12 Bahudhānya .	18 Tāraņa .	

[†] The moment of new moon was 15 hours 26 minutes before mean sunrise on 25th March, which was sunrise. The case is peculiar, since in general all days

LX- Contd.

			COMM	ENCEMENT OF	THE	1971-7			
	SOLAR YEAR		100	LUNI-SOLAR Y	rar (mean Chaitra s	SUNRISE OF UKLA 1 END	DAY ON WE	цен	Kali
ay and ith, A.D.	Week- day.		e of fësha- ranti.	Day and month, A.D.	Wesk-day.	a.	ь.	4.	year
13	14	1	7	19	20	23	24	25	1
		н. 1	M. S.						
Mar. (84)	0 Sat	1000	1 42	15 Mar. (74)	4 Wed.	215-8667	542-4557	246-2106	447
Mar. (84)	1 Sun.	14	3 51	4 Mar. (63)	1 Sun.	89-6894	J39-6991	215-3874	447
Mar. (84)	2 Mon-	- 11 5	6 0	21 Mar. (81)	6 Fri	9785-6399	288-4010	263-9600	44
Mar. (84)	4 Wed.	2 5	28 9	11 Mar. (70)	4 Wed.	9999-9947	172-9367	235-8746	44
Mar. (84)	5 Thur.	8.4	10 17	28 Feb. (59)	1 Sun	9875-7176	20-1808	205-0514	44
Mar. (84)	6 Fri	14 :	52 26	19 Mar. (78)	0 Sat	9910-3999	956-1742	56-3618	44
Mar. (84)	0 Sat. ,	21	4 35	8 Mar. (68)	5 Thur.	124-7548	839-7100	228-2763	44
Mar. (84)	2 Mon	3	16 44	25 Feb. (56)	2 Mon	0-4776	686-9539	1f -4532	44
Mar. (84)	3 Tues.	9 3	28 53	16 Mar (75)	1 Sun.	35-1599	622-9434	248-7836	44
Mar. (84)	4 Wed.	15	41 2	5 Mar. (64)	5 Thur.	9910 8828	470-1915	217-9404	44
Mar. (84)	5 Thur.	21	53 10	23 Mar. (83)	4 Wed.	9945-5651	406-1850	269-2507	44
Mar. (84)	0 Sat	4	5 19	12 Mar. (71)	1 Sun	9821 2881	253-4290	238-4276	44
Mar. (81)	1 Sun	10	17 28	2 Mar. (61)	6 Fri	35-6429	136-9647	210-3422	44
Mar. (84)	2 Mon	16	29 37	21 Mar. (80)	5 Thur.	70-3253	72-9581	261-6526	44
Mar. (84)	3 Tues.	22	41 :46	9 Mar. (69)	2 Mon	9946-0482	920-2004	230-8293	44
Mar. (84)	5 Thur.	4	53 55	27 Feb. (58)	0 Sat	160-4030	803-7379	202-7439	4
Mar. (84)	6 Fri	11	6 4	18 Mar. (77)	6 Fri	195-0853	739-7314	3-24-0544	4
Mar. (84)	0 Sat	17	18 12	7 Mar. (66)	3 Tues.	70-8082	586-9755	223-2311	4
Mar. (84)	1 Sun	23	30 21	25 Mar (85) †	2 Mon	105-4906	522-9690	274-5415	14
Mar. (84)	3 Tues.	5	42 30	14 Mar. (73)	6 Fri	9981-2134	370-2130	243-7183	4
Mar. (84)	4 Wed.	11	54 39	3 Mar. (62)	3 Tues.	9856-9362	217-4570	212-8952	44
Mar. (84)	5 Thur.	18	6 48	22 Mar (81)	2 Mon	9891-6187	153-4505	264-2056	4
Mar. (85)	0 Sat	0	18 57	11 Mar. (71)	n Sat.	105-9734	36-9862	236-1201	44
Mar. (84)	1 Sun	6	31 5	28 Feb. (59)	4 Wed	9981-6963	884-2303	205-2969	4
Mar. (84)	2 Mon	12	43 14	19 Mar. (78)	3 Tues.	16-3787	320-2228	256-6074	4.0

t herefore, the day "Chaitra sukla 1." The moment c itrue Mesha-samkranti was 30 minutes before that in column 19 are earlier than those in column 13.

TABLE

Table Tabl		74.7			CONCUE	RENT YE	AR.			
1	Kali.	Soka.	ii Vikrama.	F	Kollam.	A.D.				and suppressed (ksh.) lunar
4501 1322 1457 806 574-75 1399-00 13 Pramāthin 19 Pārthiva			Chaitric	Měshādi in Ben				COLUMN TO THE RESERVE		
1323 1458 807 575.76 *1400-01 14 Vikrama 20 Vyaya 2 Vaišākha 2 Va	11	2	3	3a	4	5	6	7		8
4503 1324 1459 808 576.77 1401-02 15 Vrisha 21 Sarvajit	4501	1322	1457	806	574-75	1399-00	13 Pramāthin .	19 Pärthiva		
1325	4502	1323	1458	807	575-76	*1400-01	14 Vikrama .	20 Vyaya		2 Vajšākha .
1326	4503	1324	1459	808	576-77	1401-02	15 Vrisha .	21 Sarvajit	et:	
4506 1327 1462 811 579-80 *1404-05 18 Tāraņa . 24 Vikrita	4504	1325	1460	809	577-78	1402-03	16 Chitrabhānu .	22 Sarvadhārin	Ų.	6 Bhādrapada .
4507 1328 1463 812 580-81 1405-06 19 Pārthiva	4505	1326	1461	810	578-79	1403-04	17 Subhānu .	23 Virödhin	٠	
4508 1329 1464 813 581-82 1406-07 20 Vyaya . 26 Nandana 4509 1330 1465 814 582-83 1407-08 21 Sarvajit . 27 Vijaya 4510 1331 1466 815 583-84 *1408-09 22 Sarvadhārin . 28 Jaya . 3 Jyēshtha 4511 1332 1407 816 584-85 1409-10 23 Virōdhin . 29 Manmatha 4512 1333 1468 817 585-86 1410-11 24 Vikrita . 30 Durmukha . 8 Kārttika‡ 4513 1334 1469 818 586-87 1411-12 25 Khara . 31 Hēmalamba 4514 1335 1470 819 587-88 *1412-13 26 Nandana . 32 Vilamba 4515 1336 1471 820 588-89 1413-14 27 Vijaya . 33 Vikārin . 5 Śrāvaņa 4516 1337 1472 821 589-90 1414-15 28 Jaya . 34 Sārvarin 4517 1338 1473 822 590-91 1415-16 29 Manmatha . 35 Plava† 4518 1339 1474 823 591-92 *1416-17 30 Durmukha . 37 Šībhāna . 4 Āshāḍha 4520 1341 1476 825 593-94 1418-19 32 Vilamba . 39 Višeēvasu 4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhāvā . 2 Vaišākha 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kīlaka . 6 Bhādrapada	4506	1327	1462	811	579-80	*1404-05	18 Tāraņa ,	24 Vikrita	-	1444
4509 1330 1465 814 582-83 1407-08 21 Sarvajit . 27 Vijaya 4510 1331 1466 815 583-84 *1408-09 22 Sarvadhārin . 28 Jaya . 3 Jyēshtha 4511 1332 1467 816 584-85 1409-10 23 Virōdhin . 29 Manmatha 4512 1333 1468 817 585-86 1410-11 24 Vikrita . 30 Durmukha . 8 Kārttika‡ 4513 1334 1469 818 586-87 1411-12 25 Khara . 31 Hēmalamba 4514 1335 1470 819 587-88 *1413-13 26 Nandana . 32 Vilamba 4515 1336 1471 820 588-89 1413-14 27 Vijaya . 33 Vikārin . 5 Srāvaņa 4516 1337 1472 821 589-90 1414-15 28 Jaya . 34 Sārvarin 4517 1338 1473 822 590-91 1415-16 29 Manmatha . 35 Plava† 4518 1339 1474 823 591-92 *1416-17 30 Durmukha . 37 Šēbhāna . 4 Āshāḍha 4519 1340 1475 824 592-93 1417-18 31 Hēmalamba . 38 Krēdhīs 4520 1341 1476 825 593-94 1418-19 32 Vilamba . 39 Višeāvasu 4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhāva . 2 Vaišākha 4522 1343 1478 827 595-96 *1420-21 34 Sārvarin . 41 Plavaāga 4524 1345 1480 829 597-98 1422-23 36 Subhakrīt . 43 Saumya	4507	1328	1463	812	580-81	1405-06	19 Pärthiva .	25 Khara	10	4 Āshāḍha .
4510 1331 1466 815 583-84 *1408-09 22 Sarvadhārin . 28 Jaya . 3 Jyēshṭha . 4511 1332 1407 816 584-85 1409-10 23 Virōdhin . 29 Manmatha	4508	1329	1464	813	581-82	1406-07	20 Vyaya .	26 Nandana	*	(44)
4511 1332 1467 816 584-85 1409-10 23 Virōdhin . 29 Manmatha 4512 1333 1468 817 585-86 1410-11 24 Vikṛita . 30 Durmukha . 8 Kārttika‡ . 4513 1334 1469 818 586-87 1411-12 25 Khara . 31 Hēmalamba 4514 1335 1470 819 587-88 *1412-13 26 Nandana . 32 Vilamba 4515 1336 1471 820 588-89 1413-14 27 Vijaya . 33 Vikārin . 5 Śrāvaņa . 4516 1337 1472 821 589-90 1414-15 28 Jaya . 34 Śārvarin 4517 1338 1473 822 590-91 1415-16 29 Manmatha . 35 Plava† 4518 1339 1474 823 591-92 *1416-17 30 Durmukha . 37 Šēbhana . 4 Āshāḍha . 4519 1340 1475 824 592-93 1417-18 31 Hēmalamba . 38 Krēdhīn 4520 1341 1476 825 593-94 1418-19 32 Vilamba . 39 Višeūvasu 4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhava . 2 Vaišākha . 4522 1343 1478 827 595-96 *1420-21 34 Šārvarin . 41 Plavaāga 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kīlaka . 6 Bhādrapada .	4509	1330	1465	814	582-83	1407-08	21 Sarvajit .	27 Vijaya	*2	
4512 1333 1468 817 585-86 1410-11 24 Vikrita . 30 Durmukha . 8 Kärttika‡ . 4513 1334 1469 818 586-87 1411-12 25 Khara . 31 Hēmalamba 4514 1335 1470 819 587-88 *1412-13 26 Nandana . 32 Vilamba 4515 1336 1471 820 588-89 1413-14 27 Vijaya . 33 Vikārin . 5 Śrāvaņa . 4516 1337 1472 821 589-90 1414-15 28 Jaya . 34 Śārvarin 4517 1338 1473 822 590-91 1415-16 29 Manmatha . 35 Plava† 4518 1339 1474 823 591-92 *1416-17 30 Durmukha . 37 Šābhana . 4 Āshāḍha . 4519 1340 1475 824 592-93 1417-18 31 Hēmalamba . 38 Krōdhin 4520 1341 1476 825 593-94 1418-19 32 Vilamba . 39 Višvāvasu 4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhava . 2 Vaišākha . 4522 1343 1478 827 595-96 *1420-21 34 Šārvarin . 41 Plavašga 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kīlaka . 6 Bhādrapada .	4510	1331	1466	815	583-84	*1408-09	22 Sarvadhārin ,	28 Jaya		3 Jyështha .
4513 1334 1469 818 586-87 1411-12 25 Khara . 31 Hēmalamba 4514 1335 1470 819 587-88 *1412-13 26 Nandana . 32 Vilamba 4515 1336 1471 820 588-89 1413-14 27 Vijaya . 33 Vikārin . 5 Srāvaņa . 4516 1337 1472 821 589-90 1414-15 28 Jaya . 34 Sārvarin 4517 1338 1473 822 590-91 1415-16 29 Manmatha . 35 Plava† 4518 1339 1474 823 591-92 *1416-17 30 Durmukha . 37 Šōbhana . 4 Āshāḍha . 4519 1340 1475 824 592-93 1417-18 31 Hēmalamba . 38 Krōdhin 4520 1341 1476 825 593-94 1418-19 32 Vilamba . 39 Višeāvasu 4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhava . 2 Vaišākha . 4522 1343 1478 827 595-96 *1420-21 34 Sārvarin . 41 Plavaāga 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kīlaka . 6 Bhādrapada .	4511	1332	1467	816	584-85	1409-10	23 Virödhin .	29 Manmatha	8	
4514 1335 1470 819 587-88 *1412-13 26 Nandana . 32 Vilamba	4512	1333	1468	817	585-86	1410-11	24 Vikrita .	30 Durmukha	2	8 Kärttika‡ .
4515 1336 1471 820 588-89 1413-14 27 Vijaya . 33 Vikārin . 5 Śrāvaņa . 4516 1337 1472 821 589-90 1414-15 28 Jaya . 34 Śārvarin	4513	1334	1469	818	586-87	1411-12	25 Khara .	31 Hēmalamba	٠	3424
4516 1337 1472 821 589-90 1414-15 28 Jaya . 34 Sārvarin 4517 1338 1473 822 590-91 1415-16 29 Manmatha . 35 Plava† 1518 1339 1474 823 591-92 *1416-17 30 Durmukha . 37 Šõhhana . 4 Āshāḍha 4519 1340 1475 824 592-93 1417-18 31 Hēmalamba . 38 Krōdhin 4520 1341 1476 825 593-94 1418-19 32 Vilamba . 39 Višvāvasu 4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhava . 2 Vaišākha 4522 1343 1478 827 595-96 *1420-21 34 Sārvarin . 41 Plavašga 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kilaka . 6 Bhādrapada 4524 1345 1480 829 597-98 1422-23 36 Subhakrit . 43 Saumya	4514	1335	1470	819	587-88	*1412-13	26 Nandana .	32 Vilamba	6	244
4517 1338 1473 822 590-91 1415-16 29 Manmatha . 35 Plava†	4515	1336	1471	820	588-89	1413-14	27 Vijaya .	33 Vikārin	٠	5 Śrāvaņa .
4518 1339 1474 823 591-92 *1416-17 30 Durmukha . 37 Šõhhana . 4 Āshāḍha 4519 1340 1475 824 592-93 1417-18 31 Hēmalamba . 38 Krōdhin 4520 1341 1476 825 593-94 1418-19 32 Vilamba . 39 Viśrōwasu 4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhava . 2 Vaišākha 4522 1343 1478 827 595-96 *1420-21 34 Sārvarin . 41 Plavašga 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kilaka . 6 Bhādrapada 4524 1345 1480 829 597-98 1422-23 36 Subhakrit . 43 Saumya	4516	1337	1472	821	589-90	1414-15	28 Jaya .	34 Särvarin	26	
4519 1340 1475 824 592-93 1417-18 31 Hémalamba . 38 Krôdhin	4517	1338	1473	822	590-91	1415-16	29 Manmatha .	35 Plava†		1000
4520 1341 1476 825 593-94 1418-19 32 Vilamba	1518	1339	1474	823	591-92	*1416-17	30 Durmukha .	37 Šõhhana		4 Åshådha .
4521 1342 1477 826 594-95 1419-20 33 Vikārin . 40 Parābhava . 2 Vaišākba . 4522 1343 1478 827 595-96 *1420-21 34 Sārvarin . 41 Plavašga 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kilaka . 6 Bhādrapada . 4524 1345 1480 829 597-98 1422-23 36 Subhakrit . 43 Saumya 44 Sādbārava	4519	1340	1475	824	592-93	1417-18	31 Hémalamba .	38 Krödhin	1	444
4522 1343 1478 827 595-96 *1420-21 34 Sărvarin . 41 Plavaăga 4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kilaka . 6 Bhādrapada . 4524 1345 1480 829 597-98 1422-23 36 Subhakrit . 43 Saumya	4520	1341	1476	825	593-94	1418-19	32 Vilamba	39 Višvāvasu		in the
4523 1344 1479 828 596-97 1421-22 35 Plava . 42 Kilaka . 6 Bhādrapada . 4524 1345 1480 829 597-98 1422-23 36 Subhakrit . 43 Saumya	452)	1342	1477	826	594-95	1419-20	33 Vikārin .	40 Parabhava		2 Vaišākha .
4524 1345 1480 829 597-98 1422-23 36 Subhakrit . 43 Saumya	452	2 1343	1478	827	595-96	*1420-21	34 Sărvarin	41 Plavanga		(949)
4525 1246 1481 920 I 598.90 1493.94 37 Sobbana 44 Sodbirana	452	3 1344	1479	828	596-97	1421-22	35 Plava	42 Kilaka		6 Bhādrapada .
4525 1346 1481 830 598.90 1423.94 37 Sobbana 44 Sadbarana	452	1345	1480	829	597-98	1422-23	36 Subhakrit	43 Saumya		(998)
4020 1320 1301 330 000-20 1420-23 07 500mms . 13 630mmaps	452	5 1346	1481	830	598-99	1423-24	37 Šõbhana	44 Sādhāraņa		1999

LX-Contd.

				CO	MMENCEMENT	OF THE				
So	LAR YEAR.				Luni-solar		s'sunrise o sukla 1 e		итен	Kali
Day and month, A.D.	Week- day.	true	ime o Mēs akrār	sha-	Day and month, A.D.	Week- day.	a.	b.	c.	year.
13	14		17	4	19	20	23	24	25	1
		н	M.	S.						
25 Mar. (84)	3 Tues	18	55	23	9 Mar. (68)	1 Sun	230-7335	703-7594	228-4414	4501
25 Mar. (85)	5 Thur.	1	7	32	26 Feb. (57)	5 Thur.	106-4563	551-1034	197-6283	4502
25 Mar. (84)	6 Fri	7	19	41	16 Mar. (75)	4 Wed	141-1387	186-9968	248-9286	4503
25 Mar. (84)	0 Sat	13	31	50	5 Mar. (64)	1 Sun	16-8615	334-2410	218-1054	4504
25 Mar. (84)	1 Sun	19	43	58	24 Mar. (83)	0 Sat	51-5439	270-2344	269-4158	4505
25 Mar. (85)	3 Tues.	1	56	7	12 Mar. (72)	4 Wed.	9927-2668	117-4784	238-5927	4506
25 Mar. (84)	4 Wed	8	8	16	2 Mar. (61)	2 Mon	141-6216	1.0142	210-5072	4507
25 Mar. (84)	5 Thur.	14	20	25	21 Mar. (80)	I Sun	176-3040	937-0076	261-8176	4508
25 Mar. (84)	6 Fri	20	32	34	10 Mar. (69)	5 Thur.	52-0269	784-2517	230-9944	4509
25 Mar. (85)	1 Sun	2	44	43	28 Feb. (59)	3 Tues	266-3816	667-7673	202-9090	4510
25 Mar. (84)	2 Mon	8	56	51	17 Mar. (76)	1 Sun	9962-4320	567-4892	251-4816	4511
25 Mar. (34)	3 Tues	15	9	0	6 Mar. (65)	5 Thur.	9838-1549	414-7332	220-6584	451:
25 Mar. (84)	4 Wed	21	21	9	25 Mar. (84)	4 Wed	9872-8373	350-7267	271-9668	4513
25 Mar. (85)	6 Fri	3	33	18	13 Mar. (73)	1 Sun	9748-5601	197-9690	241-1457	4514
25 Mar. (84)	0 Sat	9	45	27	3 Mar. (62)	6 Fri.	9962-9150	81-5065	213-0602	4513
25 Mar. (84)	1 Sun	15	57	36	22 Mar. (81)	5 Thur.	9997-5980	17-5000	264-3706	4516
25 Mar. (84)	2 Mon .	22	9	45	12 Mar. (71)	3 Tues	211-9521	901-0446	236-2862	4517
25 Mar. (85)	4 Wed	4	21	53	29 Feb. (60)	0 Sat	87-6750	748-2797	205-4630	4518
25 Mar. (84)	5 Thur.	10	34	2	19 Mar. (78)	6 Fri	122-3574	684-2731	256-7734	4519
25 Mar. (84)	6 Fri	16	46	11	8 Mar. (67)	3 Tues	9998-0803	531-5172	255-9491	4520
25 Mar (84)	0 Sat	22	58	20	25 Feb. (56)	0 Sat	9873-8030	378-7613	195-1260	4521
25 Mar. (85)	2 Mon	5	10	29	15 Mar. (75)	6 Fri	9908-4855	314-7548	246-4364	4522
25 Mar. (84)	3 Tues	11	22	38	4 Mar. (63)	3 Tues	9784-2083	161-9988	215-6132	4523
25 Mar. (84)	4 Wed	17	34	46	23 Mar. (82)	2 Mon	9818-8907	97-9923	266-9235	4524
25 Mar. (84)	5 Thur.	23	46	55	13 Mar. (72)	0 Sat .	33-2455	981-5279	2 38-8382	4525

TABLE

Kall. Saka.	
1 2 3 3a 4 5 6 7 8 4526 1347 1482 831 599-600 *1424-25 38 Krōdhin . 45 Virōdhakṛit . 4 Āshāḍha 4527 1348 1483 832 600-01 1425-26 39 Viśvāvasu . 46 Paridhāvin 4528 1349 1484 833 601-02 1426-27 40 Parābhava . 47 Pramādin 4529 1350 1485 834 602-03 1427-28 41 Plavaṅga . 48 Ānanda . 3 Jyēshṭḥa 4530 1351 1486 835 603-04 *1428-29 42 Kilaka . 49 Rākshasa 4531 1352 1487 836 604-05 1429-30 43 Saumya . 50 Anala . 8 Kārttīka 4532 1353 1488 837 605-06 1430-31 44 Sādhāraṇa . 51 Piṅgala 4533 1354 1489 838 606-07 1431-32 45 Virōdhakṛit . 52 Kālayukta 4534 1355 1490 839 607-08 *1432-33 46 Paridhāvin . 53 Sīddhārthin . 5 Srāvana 4535 1356 1491 840 608-09 1433-34 47 Pramādin . 54 Raudra 4536 1357 1492 841 609-10 1434-35 48 Ānanda . 55 Durmati 4539 1360 1495 844 612-13 1437-38 51 Piṅgala . 57 Rudhirōdgārin 4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krōdhana . 1 Chaitra 4541 1362 1497 846 614-15 1439-40 53 Sīddhārthin . 60 Kahaya 4544 1365 1500 849 617-18 1442-43 56 Dundubhi . 2 Vibhava 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda . 4 Āshāḍha	essed
4526 1347 1482 831 599-600 *1424-25 38 Krōdhin . 45 Virōdhakṛit . 4 Āshāḍha 4527 1348 1483 832 600-01 1425-26 39 Viśvāvasu . 46 Paridhāvin 4528 1349 1484 833 601-02 1426-27 40 Parābhava . 47 Pramādin 4529 1350 1485 834 602-03 1427-28 41 Plavarga . 48 Ānanda . 3 Jyōshṭha 4530 1351 1486 835 603-04 *1428-29 42 Kilaka . 49 Rākshasa 4531 1352 1487 836 604-05 1429-30 43 Saumya . 50 Anala . 8 Kārttīka 4532 1353 1488 837 605-06 1430-31 44 Sādhāraṇa . 51 Pingala 4533 1354 1489 838 606-07 1431-32 45 Virōdhakṛit . 52 Kālayukta 4534 1355 1490 839 607-08 *1432-33 46 Paridhāvin . 53 Sīddhārthin . 5 Srāvana 4535 1356 1491 840 608-09 1433-34 47 Pramādin . 54 Raudra 4538 1359 1494 843 611-12 *1436-37 50 Anala . 57 Rudhirōdgārin 4539 1360 1495 844 612-13 1437-38 51 Pingala . 58 Raktākaha 4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krōdhana . 1 Chaitra 4541 1362 1497 846 614-15 1439-40 53 Sīddhārthin . 60 Kahaya 4544 1365 1500 849 617-18 1442-43 56 Dundubhi . 2 Vibhava 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda . 4 Āshāḍha	
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4529 1350 1485 834 602-03 1427-28 41 Plavanga . 48 Ānanda . 3 Jyčahtha 4530 1351 1486 835 603-04 *1428-29 42 Kllaka . 49 Rākahasa	
4530 1351 1486 835 603-04 *1428-29 42 Klinka . 49 Rükshasa	
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4532 1353 1488 837 605-06 1430-31 44 Sādhāraņa . 51 Pingala	
4533 1354 1489 838 606-07 1431-32 45 Virodhakrit . 52 Kālayukta . 4534 1355 1490 839 607-08 *1432-33 46 Paridhāvin . 53 Siddhārthin . 5 Šrāvana 4535 1356 1491 840 608-09 1433-34 47 Pramādin . 54 Raudra . . 4536 1357 1492 841 609-10 1434-35 48 Ānanda . 55 Durmati . . 4537 1358 1493 842 610-11 1435-36 49 Rākshasa . 56 Dundubhi . 4 Āshāḍha 4538 1359 1494 843 611-12 *1436-37 50 Anala . 57 Rudhirōdgārin . . 4539 1360 1495 844 612-13 1437-38 51 Pingala . 58 Raktāksha . . . 4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krōdhara . 1 Chaitra <t< td=""><td></td></t<>	
4534 1355 1490 839 607-08 *1432-33 46 Paridhāvin . 53 Siddhārthin . 5 Šrāvana 4535 1356 1491 840 608-09 1433-34 47 Pramādin . 54 Raudra	
4535 1356 1491 840 608-09 1433-34 47 Pramādin . 54 Raudra . 4536 1357 1492 841 609-10 1434-35 48 Ānanda . 55 Durmati . 4537 1358 1493 842 610-11 1435-36 49 Rākshasa . 56 Dundubhi . 4 Āshādha 4538 1359 1494 843 611-12 *1436-37 50 Anala . 57 Rudhirōdgārin 4539 1360 1495 844 612-13 1437-38 51 Pingala . 58 Raktākaha 4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krōdhana . 1 Chaitra 4541 1362 1497 846 614-15 1439-40 53 Siddhārthin . 60 Kahaya 4542 1363 1498 847 615-16 *1440-41 54 Raudra . 1 Prabhava . 6 Bhādrapa 4543 1364 1499	
4536 1357 1492 841 809-10 1434-35 48 Ānanda . 55 Durmati . 4537 1358 1493 842 610-11 1435-36 49 Rākshasa . 56 Dundubhi . 4 Āshāḍha 4538 1359 1494 843 611-12 *1436-37 50 Anala . 57 Rudhirōdgārin 4539 1360 1495 844 612-13 1437-38 51 Pingala . 58 Raktāksha 4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krōdhana . 1 Chaitra 4541 1362 1497 846 614-15 1439-40 53 Siddhārthin . 60 Kahaya 4542 1363 1498 847 615-16 *1440-41 54 Raudra . 1 Prabhava . 6 Bhādrapa 4543 1364 1499 848 616-17 1441-42 55 Durmati . 2 Vibhava 4544 1366 1501 <td></td>	
4537 1358 1493 842 610-11 1435-36 49 Rākshasa . 56 Dundubhi . 4 Āshādha 4538 1359 1494 843 611-12 *1436-37 50 Anala . 57 Rudhirōdgārin 4539 1360 1495 844 612-13 1437-38 51 Pingala . 58 Raktāksha 4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krōdhana . 1 Chaitra 4541 1362 1497 846 614-15 1439-40 53 Siddhārthin . 60 Kahaya 4542 1363 1498 847 615-16 *1440-41 54 Raudra 1 Prabhava . 6 Bhādrapa 4543 1364 1499 848 616-17 1441-42 55 Durmati 2 Vibhava 4544 1365 1500 849 617-18 1442-43 56 Dundubhi 3 Sukla 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda . 4 Āahādha	
4538 1359 1494 843 611-12 *1436-37 50 Anala . 57 Rudhirōdgārin 4539 1360 1495 844 612-13 1437-38 51 Pingala . 58 Raktākaha 4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krōdhana . 1 Chaitra 4541 1362 1497 846 614-15 1439-40 53 Siddhārthin . 60 Kahaya 4542 1363 1498 847 615-16 *1440-41 54 Raudra 1 Prabhava . 6 Bhādrapa 4543 1364 1499 848 616-17 1441-42 55 Durmati 2 Vibhava 4544 1365 1500 849 617-18 1442-43 56 Dundubhi 3 Sukla 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda 4 Āahādha	
4539 1360 1495 844 612-13 1437-38 51 Pingala . 58 Raktākaha	10
4540 1361 1496 845 613-14 1438-39 52 Kālayukta . 59 Krödhana . 1 Chaitra 4541 1362 1497 846 614-15 1439-40 53 Siddhārthin . 60 Kahaya	
4541 1362 1497 846 614-15 1439-40 53 Siddhārthin . 60 Kahaya . 4542 1363 1498 847 615-16 *1440-41 54 Raudra . 1 Prabhava . 6 Bhādrapa 4543 1364 1499 848 616-17 1441-42 55 Durmati . 2 Vibhava . 4544 1365 1500 849 617-18 1442-43 56 Dundubhi . 3 Sukla . 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda . 4 Āshādha	
4542 1363 1498 847 615-16 *1440-41 54 Raudra . 1 Prabhava . 6 Bhādrapada 4543 1364 1499 848 616-17 1441-42 55 Durmati . 2 Vibhava . 4544 1365 1500 849 617-18 1442-43 56 Dundubhi . 3 Sukla . 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda . 4 Āshāḍha	
4543 1364 1499 848 616-17 1441-42 55 Durmati 2 Vibhava 4544 1365 1500 849 617-18 1442-43 56 Dundubhi 3 Sukla 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda 4 Āshāḍha	
4544 1365 1500 849 617-18 1442-43 56 Dundubhi . 3 Sukla 4545 1366 1501 850 618-19 1443-44 57 Rudhirōdgārin 4 Pramōda . 4 Āshāḍha	iń .
4545 1366 1501 850 618-19 1443-44 57 Rudhirödgärin 4 Pramöda . 4 Āshāḍha	
The first transfer of the second seco	
4546 1367 1502 851 619-20 *1444-45 58 Raktāksha . 5 Prajāpati	
4547 1368 1503 852 620-21 1445-46 59 Krödhana , 6 Angiras	
4548 1369 1504 853 621-22 1446-47 60 Kshaya . 7 Srīmukha . 3 Jyështha	2
4549 1370 1505 854 622-23 1447-48 1 Prabhava . 8 Bhāva	
4550 1371 1506 855 623-24 *1448-49 2 Vibhava . 9 Yuvan . 7 Āśvina	2

Remarks, p. 163 above.

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			C	OMA	ENCEMENT O	FTHE	May .						
So	HAR YEAR.				LUNI-SOLAR YEAR (MEAN SUNRISE OF DAY ON WHICH CHAITRA SUKLA 1 ENDS).					Kali year.			
Day and month, A.D.	Week- day.	Time of true Měsha- samkränti.			Week- true Měsha-		sha-	Day and month, A.D.	Week- day.	a.	ь	ć.	
13	14	17			19	20	23	24	25	1			
		H.	M.	s.									
25 Mar. (85)	0 Sat	5	59	4	2 Mar. (62)	5 Thur	247-6004	865-0637	210-7528	4526			
25 Mar. (84)	1 Sun.	12	11	13	21 Mar.(80)	4 Wed.	282-2828	801-0571	262-0632	4527			
25 Mar. (84)	2 Mon.	18	23	22	10 Mar. (69)	1 Sun	158-0056	648-3012	231-2399	4528			
26 Mar. (85)	4 Wed.	0	35	31	27 Feb. (58)	5 Thur.	33-7284	495-5453	200-4167	4529			
25 Mar. (85)	5 Thur.	6	47	39	17 Mar. (77)	4 Wed	68-4108	431-5387	251-7272	4530			
25 Mar. (84)	6 Fri	12	59	48	6 Mar. (65)	1 Sun	9944-1336	278-7828	220-9040	4531			
25 Mar. (84)	0 Sat	19	11	57	25 Mar. (84)	0 Sat.	9978-8160	214-7762	272-2143	4532			
26 Mar. (85)	2 Mon	1	24	6	14 Mar. (73)	4 Wed	9854-5389	62-0203	241:3912	4533			
25 Mar. (85)	3 Tues	7	36	15	3 Mar. (63)	2 Mon	68-8937	945-4560	213-3058	4534			
25 Mar. (84)	4 Wed	13	48	24	22 Mar. (81)	1 Sun.	103-5761	881-5495	264-6162	4535			
25 Mar. (84)	5 Thur.	20	0	32	12 Mar (71)	6 Fri	317-9309	765-0852	236-5307	4536			
26 Mar. (85)	0 Sat	2	12	41	1 Mar. (60)	3 Tues	193-6538	612-3292	205-7075	4537			
25 Mar. (85)	1 Sun	8	24	50	19 Mar. (79)	2 Mon	227-3262	548-3227	257-0180	4538			
25 Mar. (84)	2 Mon	14	36	59	7 Mar. (66)	5 Thur.	9765-4270	359-2751	223-4569	4539			
25 Mar. (84)	3 Tues	20	49	8	25 Feb. (56)	3 Tues	9979-7818	242-8108	195-3716	4540			
26 Mar. (85)	5 Thur.	3	1	17	16 Mar. (75)	2 Mon	14-4643	178-8043	246-6819	4541			
25 Mar. (85)	6 Fri	9	13	26	4 Mar. (64)	6 Fri	9890-1870	26-0483	215-8588	4542			
25 Mar. (84)	0 Sat	15	25	34	23 Mar. (82)	5 Thur.	9924-8695	962-0418	267-1691	4543			
25 Mar. (84)	1 Sun	21	37	43	13 Mar. (72)	3 Tues	139-2243	845-5774	239-0838	4544			
26 Mar. (85)	3 Tues	3	49	52	2 Mar. (61)	0 Sat	14-9472	692-8215	208-2605	4545			
25 Mar. (85)	4 Wed	10	2	1	20 Mar. (80)	6 Fri .	49-6295	628-8050	259-5709	4546			
25 Mar. (84)	5 Thur.	16	14	10	9 Mar. (68)	3 Tues	9925-3524	476-0591	228-7091	4547			
25 Mar. (84)	6 Fri	22	26	19	26 Feb. (57)	0 Sat	9801-0752	323-3031	197-9246	4548			
26 Mar. (85)	1 Sun	4	38	27	17 Mar. (76)	6 Fri	9835-7575	259-3361	249-2359	4549			
25 Mar. (85)	2 Mon	10	50	36	6 Mar. (66)	4 Wed	50-1124	142-8233	221-1495	4550			

TABLE

				CONCU	RRENT Y	EAR.	pr I	
		rama.	ar) year	MA	n. M	JOVIAN S	AMVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Saka.	Chaiteadi Vikrama.	Mēshādi (sola in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3α	4	5	6	7	8
4551	1372	1507	856	624-25 625-26	1449-50 1450-51	3 Sukla 4 Pramōda	10 Dhātri .	
4552 4553	1374	1509	857 858	626-27	1451-52	4 Pramoda . 5 Prajāpati .	12 Bahudhānya	. 5 Śrāvana
4554	1375	1510	859	627-28	*1452-53	6 Angiras	13 Pramäthin	
4555	1376	1511	860	628-29	1453-54	7 Śrimukha	14 Vikrama	
4556	1377	1512	861	629-30	1454-55	8 Bhāva	15 Vrisha	. 4 Āshādha .
4557	1378	1513	862	630-31	1455-56	9 Yuvan	16 Chitrabhānu	
4558	1379	1514	863	631-32	*1456-57	10 Dhātri	17 Subhānu	* 144 %
4559	1380	1515	864	632-33	1457-58	11 Isvara	18 Táraņa .	. 1 Chaitra .
4560	1381	1516	865	633-34	1458-59	12 Bahudhānya .	19 Pārthiva	
4561	1382	1517	866	634-35	1459-60	13 Pramūthin .	20 Vyaya .	. 5 Śrávaņa .
4562	1383	1518	867	635-36	*1460-61	14 Vikrama .	21 Sarvajit	-
4563	1384	1519	868	636-37	1461-62	15 Vrisha	22 Sarvadhārin	V Davie
4564	1385	1520	869	637-38	1462-63	16 Chitrabhānu .	23 Vîrôdhin	. 4 Āshādha .
4565	1386	1521	870	638-39	1463-64	17 Subhānu .	24 Vikrita	*
4566	1387	1522	871	639-40	*1464-65	18 Tăraņa	25 Khara .	A 200
4567	1388	1523	872	640-41	1465-66	19 Pärthiva .	26 Nandana	. 2 Vaišākha .
4568	1389	1524	873	641-42	1466-67	20 Vyaya	27 Vijaya .	1 (6)
4569	1390	1525	874	642-43	1467-68	21 Sarvajit .	28 Jaya .	. 6 Bhādrapada .
4570	1391	1526	875	643-44	*1468-69	22 Sarvadhārin .	29 Manmatha	9 144
4571	1392	1527	876	644-45	1469-70	23 Virōdhin .	30 Durmukha	
4572	1393	1528	877	645-46	1470-71	24 Vikrita	31 Hēmalamba	. 5 Srāvaņa
4573	1394	1529	878	646-47	1471-72	25 Khara	32 Vilamba,	
4574	1395	1530	879	647-48	*1472-73	26 Nandara .	33 Vikārin .	*
4575	1393	1531	880	648-49	1473-74	27 Vijaya	34 Sar-arin	. 3 Jyeshtha .
-	1	-	-	-	1		-	

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		COMM	ENCEMENT O	FTHE				
So	LAR YEAR-		LUNI-SOLAR YE		UNRISE OF 1 SUKLA 1 ES		oz.	Kali year.
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	a.	ь.	c.	
13	14	17	19	20	23	24	25	1
		н. м. в.						
25 Mar. (84)	3 Tues	17 2 45	25 Mar. (84)	3 Tues.	84-7948	78-8257	272-4599	4551
25 Mar. (84)	4 Wed	23 14 54	14 Mar. (73)	0 Sat.	0960-5176	926-9698	241-6368	4552
26 Mar. (85)	6 Fri	5 27 3	4 Mar (63)	5 Thur.	174-8724	809-5415	213-5513	4553
25 Mar. (85)	0 Sat.	11 39 12	22 Mar. (82)	4 Wed	209-5549	745-5990	264-8617	4554
25 Mar. (84)	1 Sun	17 51 20	11 Mar. (70)	1 Sun.	85-2777	592-8430	234-0385	4555
26 Mar. (85)	3 Tues	0 3 29	28 Feb. (59)	5 Thur.	9961-0005	440-0871	203-2153	4556
26 Mar. (85)	4 Wed	6 15 38	19 Mar. (78)	4 Wed	9995-6829	376-0805	254-5257	4557
25 Mar. (85)	5 Thur.	12 27 47	7 Mar. (67)	1 Sun.	9871-4958	223-3246	223-7024	4558
25 Mar. (84)	6 Fri.	18 39 56	25 Feb. (56)	6 Fri	85-7606	106-8603	195-6171	5559
26 Mar. (85)	1 Sun	0 52 5	16 Mar. (75)	5 Thur.	120-1130	42-8538	246-9275	4560
26 Mar. (85)	2 Mon	7 4 13	5 Mar. (64)	2 Mon	9996-1658	890-0978	216-1053	4561
25 Mar. (85)	3 Tues	13 16 22	23 Mar. (83)	1 Sun.	30-8483	826-0913	267-4146	4562
25 Mar. (84)	4 Wed	19 28 31	13 Mar. (72)	6 Fri	245-2030	709-0270	239-3293	4563
26 Mar. (85)	6 Fri	1 40 40	2 Mar. (61)	3 Tues	120-9259	556-8710	208-5061	4564
26 Mar. (85)	0 Sat	7 52 49	21 Mar. (80)	2 Mon	155-6083	492-8645	259-8165	4565
25 Mar. (85)	1 Sun.	14 4 58	9 Mar. (69)	6 Fri	31-3312	340-1086	238-9942	4566
25 Mar. (84)	3 Mon	20 17 7	26 Feb. (57)	3 Tues	9907-0539	187-3526	168-1701	4567
26 Mar. (85)	4 Wed	2 29 15	17 Mar. (76)	2 Mon	9941-7363	123-3461	249-4805	4568
26 Mar. (85)	5 Thur.	8 41 24	7 Mar. (66)	0 Sat	156-0912	6-8818	221-3950	4569
25 Mar. (85)	6 Fri	14 53 33	25 Mar. (85)	6 Fri	190-7735	942-8753	272-7054	4570
25 Mar. (84)	0 Sat	21 5 42	14 Mar. (73)	3 Tes. ,	66-4964	790-1193	241-8823	4571
26 Mar. (85)	2 Mon	3 17 51	4 Mar. (63)	1 Sun	280-8512	673-6550	213-7969	4572
26 Mar. (85)	3 Tues	9 30 0	22 Mar. (81)	6 Fri	9976-9017	573-3568	262-3695	4573
25 Mar. (85)	4 Wed	15 42 8	10 Mar (70)	3 Tues	0852-6245	420-6009	231-5662	4574
25 Mar. (84)	5 Thur.	21 54 17	27 Feb. (58)	0 Sat	6723-3473	267-8450	200-7230	4575

TABLE

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				CONCUE	RENT YE	AR.			
Kali.	Saka.	Chaitradi Vikrāma-	Meshadi (solar) year in Bengalı	Kollam.	A.D.	Southern	Sa	Northern	Intercalated and suppressed (ksh.) lunar months.
		Chaitz	Meshii in B			system.		system.	
1	2	3	34	4	5	-6		7	8
4576	1397	1532	881	649-50	1474-75	28 Jaya .	*0	35 Plava	***
4577	1398	1533	882	650-51	1475-76	29 Manmatha	*	36 Subhakrit .	.05
4578	1399	1534	883	051-52	*1476.77	30 Durmukha	8	37 Sõbhana .	1 Chaitra .
4579	1400	1535	884	652-53	1477-78	31 Hémalamba	*	38 Krödhin.	***
* 4580	1401	1536	885	653-54	1478-79	32 Vilamba.	2	39 Visvāvasu .	5 Srāvaņa .
4581	1402	1537	886	654-55	1479-80	33 Vikārin .	*8	40 Paráthava .	
4582	1403	1538	887	655-56	*1480-51	34 Sărvarin	8	41 Piavanga .	4
4583	1404	1539	888	656-57	1481-82	35 Plava .		42 Kilako	4 Åshādha .
4584	1405	1540	889	657-58	1482-83	36 Subhakrit	6	43 Saumya .	100
4585	1406	1541	890	658.59	1483-84	37 Sõbhana	*1	44 Sådhåraña .	100.0
4586	1407	1542	891	659-60	*1484-85	38 Krödhin.	72	45 Virôdhakrit .	2 Vaišākha .
4587	1408	1543	892	660-61	1485-86	39 Visvāvasu	-	46 Paridhāvin .	***
4588	1400	1544	893	661-62	1486-87	40 Parabbaya	10	47 Pramādin .	6 Bhādrapads .
4589	1410	1545	894	662-63	1487-88	41 Plavanga	×	48 Ånanda	***
4590	1411	1546	895	663-64	*1488-89	42 Kilaku .	*	40 Rākshasa -	***
4591	1412	1547	896	664-65	1489-90	43 Saumya	.53	50 Anala	5 Srāvaņa .
4592	1413	1548	897	665-66	1490-91	44 Sådhärana	31	51 Pingala	100
4593	1414	1549	898	666-67	1491-92	45 Virodhakrit	7	52 Kálayukta .	
4594	1415	1550	899	667-68	*1492-93	46 Paridhāvin		53 Siddhärthin .	3 Jyështha .
4593	1416	1551	900	No.	1493-94	47 Pramādin	-	54 Raudra	244
4590	1417	1552	901		1494-95	48 Ånanda .		55 Durmati .	****
4597			1		1495-96	49 Rākshusa		56 Dundubhi .	1 Chaitra .
4598	1419	1554	3000		*1496-97	50 Anala .		57 Rudhirôdgárin	
4.591		1555	904		1497-98	51 Pingala .		58 Raktākaha	5 Srāvana .
4600	1421	1556	905	673-74	1498-99	52 Kālayukta		59 Krödhana .	76

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		CON	IMENCEMENT	OF THE				
S	OLAR YEAR.		LUNI-SOLAR		AN SUNRISE SUKLA I EN		waten	Kali.
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a.	ь.	c.	
13	14	17	19	20	23	24	25	1
26 Mar. (85)	0 Sat.	H. M. S. 4 6 26	18 Mar. (77)	6 Fri	9763-0297	203-8384	252-0335	4576
26 Mar. (85)	I San	10 18 35	8 Mar. (67)	4 Wed-	9977-3845	87-3741	223-9480	4577
25 Mar. (85)	2 Mon	16 30 44	26 Feb. (57)	2 Mon	191-7393	970-9068	195-8626	4578
25 Mar. (84)	3 Tres.	22 42 53	16 Mar. (75)	1 Sun.	2264218	906-9033	247-1730	4579
26 Mar. (85)	5 Thur.	4 55 1	5 Mar. (64)	5 Thur.	102-1446	754-0474	210-3499	4580
26 Mar. (85)	6 Fri	11 7 10	24 Mar. (83)	4 Wed-	136-8270	690-1408	267-6602	4581
25 Mar. (85)	0 Sat	17 19 19	12 Mar. (72)	1 Sun	12:5498	537-3849	236-8370	4582
25 Mar. (84)	1 Sun.	23 31 28	1 Mar. (60)	5 Thur.	9888-2727	384-6289	206-0138	4583
26 Mar. (85)	3 Tues.	5 43 37	20 Mar. (79)	4 Wed.	9922-9550	320-6184	257-3243	4584
26 Mar. (85)	4 Wed.	11 55 46	9 Mar. (68)	1 Sun	9798-6779	167-8664	226-5010	4585
25 Mar. (85)	5 Thur.	18 7 54	27 Feb. (58)	6 Fri	13-0326	51-4021	198-4156	4586
26 Mar (85)	0 Sat	0 20 3	17 Mar. (76)	5 Thur.	47:7151	987-3956	249-7260	4587
26 Mar. (85)	1 Sun	6 32 12	7 Mar. (66)	3 Tues.	262 0600	870-9313	221-0416	4588
26 Mar. (85)	2 Mon	12 44 21	26 Mar. (85)	2 Mon	296-7523	806-9247	272-9510	4589
25 Mar. (85)	3 Tues.	18 56 30	14 Mar. (74)	6 Fri.	172-4752	654-1688	242-1278	4590
26 Mar. (85)	5 Thur	1 8 39	3 Mar. (62)	3 Tues.	48-1981	501-4129	211-3046	4591
26 Mar. (85)	6 Fri	7 20 48	22 Mar. (81)	2 Mon.	82-8804	437-4064	262-6151	4592
26 Mar. (85)	0 Sat	13 7 32 56	11 Mar. (70)	6 Fri	9958-5833	284-6504	231-7918	4593
25 Mar. (85)	I Sun	19 45 5	28 Feb. (59)	3 Tues.	9834-3261	131-8945	200-9685	4594
26 Mar. (85)	3 Tues.	1 57 14	18 Mar. (77)	2 Mon	9869-0084	67-8880	252-2790	4595
26 Mar. (85)	4 Wed.	8 9 23	8 Mar. (67)	0 Sat	83:3633	951-4236	2241936 196-1082	4596
26 Mar. (85)	5 Thu	14 21 32	26 Feb. (57)	5 Thur.	297-7181	834-9593 734-6612	244-6807	4598
25 Mar. (85)	6 Fri.	20 33 41	15 Mar. (75)	3 Tues.	9993-7685	618-1969	216-5954	4599
26 Mar. (85)	I Sun.	2 45 49	5 Mar. (64)	I Sun	208-1233	517-8977	265-1680	4000
26 Mar. (85)	2 Mon	8 57 58	23 Mar. (82)	6 Fri.	3,00,1100	NA TON THE PERSON NA TON THE P		

TABLE

. 49				- 10	CONC	URRENT	YEAR.		
-			rama	ır) year		•	Joyian Sa	MVATSARA.	Intercalated and suppressed (ksh.) lunar
1000	Kali.	Šaka.	Chaitrādi Vikrama.	Mēshādi (solar) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
	1	9	3	3a	4	5	6	7	8
	4601	1422	1557	906	674-75	1499-1500	53 Siddhārthin	60 Kshaya .	
	4602	1423	1558	907	675-76	*1500-01	54 Raudra .	1 Prabhava† .	4 Åshāḍha .
	4603	1424	1559	908	676-77	1501-02	55 Durmati .	3 Śukla .	1966
	4604	1425	1560	909	677-78	1502-03	56 Dundubhi .	4 Pramôda .	10000
	4605	1426	1561	910	678-79	1503-04	57 Rudhirödgärin	5 Prajāpati ,	2 Vaišākha .
	4606	1427	1562	911	679-80	*1504-05	58 Raktāksha .	6 Angiras .	PMS .
	4607	1428	1563	912	880-81	1505-06	59 Krôdhana	7 Śrimukha .	6 Bhidrapada
	4608	1429	1564	913	681-82	1506-07	60 Kshaya	8 Bhāva .	1999
	4609	1430	1565	914	682-83	1507-08	I Prabhava .	9 Yuuan	944
	4610	1431	1566	915	683-84	*1508-09	2 Vibhaya	10 Dhātṛi .	5 Śrāvaņa .
	4611	1432	1567	916	684-85	1509-10	3 Sukia .	11 Iévara .	272
	4612	1433	1568	917	685-86	1510-11	4 Pramôda .	12 Bahudhānya .	349"
	4613	1434	1569	918	686-87	1511-12	5 Prajāpati .	13 Pramāthin .	3 Jyështha .
	4614	1435	1570	919	687-88	*1512-13	6 Angiras .	14 Vikrama .	7 Āsvina
	4615	1436	1571	920	688-89	1513.14	7 Srimukha .	15 Vrisha {	10 Pausha (ksh) j
	4616	1437	1572	921	689-90	1514-15	S Bhāva .	16 Chitrabhanu .	1 Chaitra .
	4617	1438	1573	922	690-91	1515-16	9 Yuvan	17 Subhānu .	
	4618	1439	1574	923	691-92	*1516-17	10 Dhātrī	18 Tāraņa .	5 Śrāvaņa .
	4619	1440	1575	924	692-93	1517-18	11 Iśvara .	19 Pärthiva	***
	4620	-	1576	925	693-94	1518-19	12 Bahudhānya .	20 Vyaya .	***
	4621	1442	1677	926	694-95	1519-20	13 Pramäthin	21 Sarvajit .	4 Āshāḍha .
	4622	- 10	579	927	695-96	*1520-21	14 Vikrama	22 Sarvadhārin .	1
	4623	West -	679	928	696-97	1521-22	15 Vrisha .	23 Virðdhin	
	4624	1-000		929	697-93		15 Caltrabhánu .	2 Vikrita	2 Vaišākha .
	4625	1446	1581	930	698-99	1523-24	17 Subhānu .	25 Khara	444

† Vibhaya was suppressed in the north.

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		сом	MENCEMENT	OF THE				
Se	DEAR YEAR.		LUNI-SOLAR		SUNRISE OF		шен	Kali year.
Day and month, A.D.	Week- day	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	a.	ь.	c.	3,444
13	14	17	19	20	23	24	25	1
26 Mar. (85)	3 Tues.	H. M. S. 15 10 7	12 Mar. (71)	3 Tues	9779-8966	365-1427	234-2642	4601
25 Mar. (85)	4 Wed.	21 22 16	1 Mar. (61)	1 Sun	9994-2515	248-6785	206-1788	4602
26 Mar. (85) 26 Mar. (85)	6 Fri	9 46 34	20 Mar. (79) 9 Mar. (68)	0 Sat	29-0339 9904-6567	184-6719 31-9160	257-4892 226-6659	4603
26 Mar. (85)	1 Sun.	15 58 42	27 Feb. (58)	2 Mon.	119-0115	915-4516	198-5806	4605
25 Mar. (85)	2 Mon.	22 10 51	17 Mar. (77)	1 Sun.	153-6939	851-4451	249-8910	4606
26 Mar. (85)	4 Wed.	4 23 0	6 Mar. (65)	5 Thur.	29-4167	698-6892	219-0678	4607
26 Mar. (85)	5 Thur.	10 35 9	25 Mar. (84)	4 Wed.	64-0991	634-6827	270-3781	4608
26 Mar. (85)	6 Fri	16 47 18	14 Mar. (73)	1 Sun	9939-8220	481-9267	239-5550	4600
25 Mar. (85)	0 Sat	22 59 27	2 Mar. (62)	5 Thur.	9816-5448	329-1707	208-7318	4616
26 Mar. (85)	2 Mon .	5 11 36	21 Mar. (80)	4 Wed.	9850-2272	265-1642	260-0422	461
26 Mar. (85)	3 Tues.	11 23 44	11 Mar. (70)	2 Mon.	64-5821	148-6999	231-9567	461:
26 Mar. (85)	4 Wed.	17 35 53	28 Feb. (59)	6 Fri.	9940-3049	995-9440	201-1333	4613
25 Mar. (85)	5 Thur.	23 48 2	18 Mar. (78)	5 Thur.	9974-9872	931-9375	252-4440	461
26 Mar. (85)	0 Sat	6 0 11	8 Mar. (67)	3 Tues,	189-3421	815-4732	224-3585	461
26 Mar. (85)	1 Sun	12 12 20	25 Feb. (56)	0 Sat	65-0650	662-7172	193-5353	461
26 Mar. (85)	2 Mon	18 24 29	16 Mar. (75)	6 Fri.	99:7473	598-7196	244-8457	461
26 Mar. (86)	4 Wed-	0 36 37	4 Mar. (64)	3 Tues.	9975-4701	445-9547	214-0226	461
26 Mar. (85)	5 Thur.	6 48 46	23 Mar. (82)	2 Mon	10-1526	381-9482	265:3330	461
26 Mar. (85)		13 0 55	12 Mar. (71)	6 Fri	9885-8754	229 1922	234-5097	462
26 Mar. (85)	C (55)11115 (C)		2 Mar. (61)	4 Wed.	100-2302	112-7280	206-4243	462
26 Mar. (86)	THE SHAPE			3 Tues.	134-9126	48-7215	257-7349	462
26 Mar. (85)	Will State	7 37 22	1911/101/101/102	0 Sat	10-6355	895-9655	226-9115	462
26 Mar. (85)	To all	13 49 30	STATE OF THE STATE OF	5 Thur.	224-9902	779-5012	198-8261	462
26 Mar. (85)	5 Thur.	20 1 39	18 Mar. (77)	4 Wed.	259-6726	715-4946	250-1365	462

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				CON	CURRENT	YEAR.		
		krama.	ar) year			Jovian Sa	MVATSARA.	Intercalated and suppressed (ksk.) lunar
Kali.	Šaka.	Ohaitrādi Vikrama.	Meshadi (solar) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months,
1	- 2	3	3a	4	5	6	7	8
-								
4626	1447	1582	931	699-700	*1524-25	18 Taraņa .	26 Nandana	6 Bhadrapada
4627	1448	1583	932	700-01	1525-26	19 Parthiva .	27 Vijaya	***
4628	1449	1584	933	701-02	1526-27	20 Vyaya .	28 Jaya .	
4629	1450	1585	934	702-03	1527-28	21 Sarvajit .	29 Manmatha .	4 Áshádha
4630	1451	1586	935	703-04	*1528-29	22 Sarvadhārin .	30 Durmukha .	1444
4631	1452	1587	936	704-05	1529-30	23 Virôdhin .	31 Hémalamba .	300
4632	1453	1588	937	705-06	1530-31	24 Vikrita .	32 Vilamba .	3 Jyështha .
4633	1454	1589	938	706-07	1531-33	25 Khara .	33 Vikārin .	3941
4634	1455	1500	939	707-08	*1532-33	26 Nandana .	34 Sărvarin .	7 Aśvina .
4635	1456	1591	940	708-09	1533-34	27 Vijaya .	35 Plava .	***
4636	1457	1592	941	709-10	1534-35	28 Jaya .	36 Subhakrit .	222
4637	1458	1593	942	710-11	1535-36	29 Manmatha .	37 Sõbhana .	5 Srāvaņa .
4638	1459	1594	943	711-12	*1536-37	30 Durmukha .	38 Krödhin .	***
4639	1460	1595	944	712-13	1537-38	31 Hēmalamba .	39 Viśvāvasu .	***
4640	1461	1596	945	713-14	1538-39	32 Vilamba .	40 Parābhava .	4 Åshādha .
4641	1462	1597	946	714-15	1539-40	33 Vikārin .	41 Playanga .	
4642	1463	1598	947	715-16	*1540-41	34 Sarvarin .	42 Kilaka .	
4643	1464	1599	948	716-17	1541-42	35 Plava	43 Saumya .	2 Valšākha .
4644	1465	1600	949	717-18	1542-43	36 Subhakrit .	44 Sādhāraņa .	
4645	1466	1601	950	718-19	1543-44	37 Söbhana .	45 Virôdhakrit .	6 Bhādrapada
4646	1467	1602	951	719-20	*1544-45	38 Krödhin .	46 Paridhāvin .	***
4647	1468	1603	952	720-21	1545-46	39 Višvāvasu .	47 Pramādin .	***
4048	1469	1604	953	721-22	1546-47	40 Parābhava .	48 Ānanda .	4 Āshādha
4649	1470	1605	954	722-23	1547-48	41 Plavanga .	49 Rākshasa .	
4650	1471	1606	955	723.24	*1548-49	42 Kilaka .	50 Anala .	
	No.	TOTAL P	4.650	11/1/15	-			

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	1	COM	MENCEMENT				-	
80	LAR YEAR.		LUNI-SOLAR	YEAR (MEA) - CHATTRA S	N SUNBISE O	y DAY ON	wшен	Kal
Day and month, A. D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a.	b.	e.	
13	14	17	19	20	23	24	25	1
26 Mar. (86)	0 Sat	H. M. S. 2 13 48	6 Mar. (66)	1 Sun.	135-3955	562-7387	219-3134	462
26 Mar. (85)	1 Sun	8 25 57	25 Mar. (84)	0 Sat	170-0779	498-7322	270-6237	462
26 Mar. (85)	2 Mon	14 38 6	14 Mar. (73)	4 Wed	45-8007	345-9762	239-8005	462
26 Mar. (85)	3 Tues	20 50 15	3 Mar. (62) .	1 Sun	9921-5236	193-2203	208-9773	462
26 Mar. (86)	5 Thur.	3 2 23	21 Mar. (81)	0 Sat	9956-3060	129-2137	260-2878	463
26 Mar. (85)	6 Fri	9 14 32	11 Mar. (70)	5 Thur	170-5608	12-7495	232-2023	463
26 Mar. (85)	0 Sat. :	15 26 41	28 Feb. (59)	2 Mon	46-2836	860-0035	201-3790	463
6 Mar. (85)	1 Sun.	21 38 50	19 Mar. (78)	1 Sun	80-9660	795-9870	252-6895	46
26 Mar. (86)	3 Tues	3 50 59	S Mar. (68)	6 Fri	295-3209	679-5227	224-6041	46
6 Mar. (85)	4 Wed	10 3 8	26 Mar. (85)	4 Wed	9991-3712	579-1945	273-1767	46
6 Mar. (85)	5 Thur	16 15 17	15 Mar. (74)	1 Sun	9867-0941	426-4686	242-3535	46
6 Mar. (85)	6 Fri	22 27 25	4 Mar. (63) .	5 Thur.	9742-8170	273-7126	211-5303	46
26 Mar. (86)	1 Sun	4 39 34	22 Mar. (82)	4 Wed, .	9777-4894	209-7061	262-8408	46
26 Mar. (85)	2 Mon	10 51 43	12 Mar. (71)	2 Mon	9991-8551	93-2417	234-7553	46
26 Mar. (85)	3 Tues	17 3 52	2 Mar. (61)	0 Sat	205-2090	976-7775	206-6699	46
26 Mar. (85)	4 Wed	23 16 1	21 Mar. (80)	6 Fri	240-8914	912-7710	258-6803	46
26 Mar. (86)	6 Fri	5 28 10	9 Mar. (69)	3 Tues	116-6132	760-0151	227-1571	46
26 Mar. (85)	0 Sat	11 40 18	26 Feb. (57)	0 Sat	9992-3370	607-2591	196-3339	46
26 Mar. (85)	1 Sun	17 52 27	17 Mar. (76)	6 Fri	27-0195	543-2525	247-6443	46
27 Mar. (86)	3 Tues	0 4 36	6 Mar. (65)	3 Tues	9902-7423	390-4966	216-8211	46
26 Mar. (86)	4 Wed	6 12 45	24 Mar. (84)	2 Mon	9937-4247	326-4900	268-1214	40
26 Mar. (85)	5 Thur.	12 28 54	13 Mar. (72)	6 Fri	9813-1475	173-7341	237-3083	44
26 Mar. (85)	6 Fri	18 41 3	3 Mar. (62)	4 Wed	27-5024	57-2698	209-2229	44
27 Mar. (86)	I Sun	0 53 11	22 Mar. (81)	3 Tues	62-1847	993-2632	260-5333	46
26 Mar. (86)	2 Mon	7 5 20	11 Mar. (71)	1 Sun.	. 276-5396	876-7990	232-4478	46

	T			CON	CURRENT	YEAR.		I .
		ikrama.	ar) year				AMVATSARA.	Intercalated and suppressed
Kali.	Saka	Chaitrādi Vikra ma-	Möshādi (sola in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	(ksh.) lunar months.
1	2	3	3a	4	5	6	7	8
4651	1472	1607	956	724-25	1549-50	40.0		
4652	1000	1608	957	725-26		43 Sanmya .	51 Pingala	3 Jyéshtha .
4653	1474	1609	958	726-27	1550-51	44 Sādhāraņa .	52 Kālayukta .	***
4654	1475	1610	959	727-28	1551-52	45 Virôdhakrit .	53 Siddhārthin .	7 Aśvina .
4655	1476	1611	960	728-29	*1552-53 1553-54	46 Paridhāvin .	54 Raudra	200.3
4656	1477	1612	961	729-30	1554-55	47 Pramādin .	55 Durmati .	1899
4657	1478	1613	962	730-31	SEE II	48 Ånanda	56 Dundubhi .	5 Śrāvaņa
4658	1479	1614	963	731-32	*1555-56 *1556-57	49 Råkshasa .	57 Rudhirödgárin	1577
4659	1480	1015	964	732-33		50 Anala	58 Raktāksha .	***
4660	1481	1616	965	733-34	1557-58	51 Pingala	59 Krödhana .	4 Ashādha .
4661	1482	1617	966	734-35	1558-59	52 Kālayukta .	60 Kahaya	20
4662	1483	1618	967	735-36	1559-00	53 Siddhārthin .	1 Prabhava .	***
4663	1484	1619	968	736-37	*1560-61	54 Raudra	2 Vibhava.	2 Vaišākha .
4564	1485	1620	969		1561-62	55 Durmati .	3 Sukla	944
4665	100000	1621	970	737-38	1562-63	56 Dundubhi .	4 Pramôda .	6 Bhādrapada .
	1486	1000	1999/11	738-39	1563-64	57 Rudhirödgarin	5 Prajāpati .	***
4666	1487	1622	971	739-40	*1564-65	58 Raktāksha .	6 Angiras	***
4667	1488	1623	972	740-41	1565-66	59 Krödhana .	7 Śrimukha ,	4 Āshādha .
1668	1489	1624	973	741-42	1560-67	60 Kshaya	8 Bhāva	
4669	1490	1625	974	742-43	1567-68	1 Prabhaya .	9 Yuvan	
4670	1491	1626	975	743-44	*1568-69	2 Vibhava.	10 Dhātri , .	3 Jyéshtha .
4671	1492	1627	976	744-45	1569-70	3 Šukla	11 Iśvara	
4672	1493	1628	977	745-46	1570-71	4 Pramoda .	12 Bahudhānya .	7 Aévina .
4673	1494	1629	978	746-47	1571-72	5 Prajāpati .	13 Pramäthin .	
4674	1495	1630	979	747-48	*1572.73	6 Angiras	14 Vikrama .	
4675	1496	1631	980	748-49	1573-74	7 Śrimukha .	15 Vrisha	5 Śrāvana .
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			COMMENCEMEN	T OF THE				
s	OLAR YEAR.		LUNI-SOLAR 1	CHATTRA SI	SUNEISE OF TRIA I ENDS	DAY ON WH	си	Kali
Day and month, A.D.	Week-day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	a,	ь.	C ₄	year.
13	14	17	19	20	23	24	25	1
26 Mar. (85)	3 Tues	H. M. 8 13 17 29	28th Feb. (59)	5 Thur.	152-2624	724-0430	201-6246	4651
26 Mar. (85)	4 Wed	19 29 38	10 Mar. (78)	4 Wed	186-9447	660-0365	252-9351	4652
27 Mar. (86)	6 Fri	1 41 47	8 Mar. (67)	1 Sun.	62-6676	507-3166	222-1018	4653
26 Mar. (86)	0 Sat	7 52 56	26 Mar. (86)	0 Sat.	97:3500	443-2740	273-4222	4654
26 Mar. (85)	1 Sun	14 6 4	15 Mar. (74)	4 Wed	9973-0729	290-5181	242-5991	4655
26 Mar. (85)	2 Mon	20 18 13	4 Mar. (63)	1 Sun	9848-7957	137-7622	212-2759	1656
27 Mar. (86)	4 Wed. ,	2 30 22	23 Mar. (82)	0 Sat	9883-4781	73-7556	263-0863	4657
26 Mar. (86)	5 Thur.	8 42 31	12 Mar. (72)	5 Thur,	97-8329	957-2912	235-0008	4658
26 Mar. (85)	6 Fri	14 54 40	2 Mar. (61)	3 Tues, .	312-1878	840-8270	206-9154	4689
26 Mar. (85)	0 Sat	21 6 49	20 Mar. (79)	1 Sun	8-2381	740-5288	255-4881	4660
27 Mar. (86)	2 Mon	3 18 58	10 Mar. (60)	6 Fri	222-5930	624-0646	227-4026	4661
26 Mar. (86)	3 Tues	9 31 6	27 Feb. (58)	3 Tues	98-3158	471-3086	196-5794	4662
26 Mar. (85)	4 Wed. ,	15 43 15	16 Mar. (75)	1 Sun	9794-3672	371-0104	245-1420	1663
26 Mar. (85)	5 Thur.	21 55 24	6 Mar. (65)	6 Fri	8-7210	254-5461	217-0667	4664
27 Mar. (86)	0 Sat	4 7 33	25 Mar. (84)	5 Thur,	43-4034	190-5396	268-3770	4665
26 Mar. (86)	1 Sun	10 19 42	13 Mar. (73)	2 Mon	9919-1263	37-7836	237-5538	4666
26 Mar. (85)	2 Mon	16 31 51	3 Mar. (62)	0 Sat	133-4811	921-3193	209-4684	4667
26 Mar. (85)	3 Tues	22 43 59	22 Mar. (81)	6 Fri.	168-1635	857-3128	260-7780	4668
27 Mar. (86)	5 Thur.	4 56 8	11 Mar. (70)	3 Tues	43-8864	704-5568	229-9556	4669
26 Mar. (86)	6 Fri	11 8 17	28 Feb. (59)	0 Sat	9919-6901	551-8009	199-1324	4670
26 Mar. (85)	0 Sat.	17 20 26	18 Mar. (77)	6 Fri.	9954-2915	487-7943	250-4428	4671
26 Mar. (85)	1 Sun.	23 32 35	7 Mar. (66)	3 Tues	9831-0114	325-5384	219-6197	4672
27 Mar. (86)	3 Tues.	5 44 44	26 Mar. (85)	2 Mor	9864-6968	271-0319	270-9300	4673
26 Mar. (86) 26 Mar. (85)	4 Wed	H 56 52	15 Mar. (75)	0 Sat.	79-0516	154-5676	242-8446	4674
20 mar. (80)	5 Thur.	18 9 1	4 Mar. (63)	4 Wed .	9954-7745	1-8117	212-0214	48.75

TABLE

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					CONCUI	RRENT Y	EAR.		Branch B.
	1	1	rama.	ır) year			JOVIAN SAM	VATSARA.	Intercalated and suppressed (ksh.) lunar
K	ali. S	šaka.	Chaitradi Vikrama,	Mēshādi (solar) ; in Bengal.	Kollani.	A.D.	Southern system.	Northern system.	months.
	1	2	3	3a	4	5	6	7	8
-	1676	1497	1632	981	749-50	1574-75	8 Bhāva	16 Chitrabhānu .	
-	4677	1498	1633	982	750-51	1575-76	9 Yuvan	17 Subhānu .	
. 5	4678	1499	1634	983	751-52	*1576-77	10 Dhātri	18 Tăraņa	4 Āshādha .
	4679	1500	1635	984	752-53	1577-78	11 Isvara	19 Pärthiva	1444
	4680	1501	1636	985	753-54	1578-79	12 Bahudhānya .	20 Vyaya	3
	4681	1502	1637	986	754-55	1579-80	13 Pramāthin .	21 Sarvajit .	1 Chaitra
	4682	1503	1638	987	755-56	*1580-81	14 Vikrama .	22 Sarvadhārin .	200
	4683	1504	1639	988	756-59	1581-82	15 Vrisha	23 Virôdhin	6 Bhādrapada .
	4684	1505	1640	989	757-58	1582-83	16 Chitrabhanu .	24 Vikrita	
	4685	1506	1641	990	758-59	1583-84	17 Subhānu .	25 Khara	
	4686	1507	1642	991	759-60	*1584-85	18 Tăraņa	26 Nandana .	4 Āshāḍha .
	4657	1508	1643	993	2 780-61	1585-86	19 Pārthīva .	27 Vijaya†	
	4688	1509	1644	99	3 761-62	1586-87	20 Vyaya	100 March 1994 And	
	1089	1510	1640	99	4 762-63	1587-88			3 Jyështha .
	4690	1511	164	09	5 763-64	*1588-89	The state of the s	Constant of	
	4691	1 1515	164			1589-90	THE REAL PROPERTY OF THE PARTY	- Contraction of the Contraction	7 Asvina
	4693					1590-91	THE HARMAN	33 Vikārin .	
	4693				2.17	1591-92	THE PROPERTY OF THE	34 Sărvarin	5 Ortonna
	469		-		2200	*1592.03		2 H 124	. 5 Srāvaņa .
	469	-	A PORTO	11 65	- Land		- ASS	no freeze	
	469	1000	1	F AU	Service Commission		American con-	. 34 Soonana . 38 Kr.dhin	. 4 Åshādha .
	460	200	1/100	111 192		-	2 Property and the Co.	. 39 Vištūrasu	
	469	W Loren						. 40 Parābhava	***
	469						COMPRESSION NOT 1	41 Plavanija	. 1 Chaitra.
	470		1 163	6 10	05 713-74	1598-99	at thambar	ALL THINKS	1

† 28 Jaya was suppressed in the north.

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So	LAR YEAR.	1	ENCEMENT OF	R (MEAN SU	UNRISE OF TOKIA 1 END	DAY ON WEI		Kali-
Day and month A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a.	ь.	с.	,
13	14	17	19	20	23	24	25	1
27 Mar. (86)	0 Sat	H. M. 8. 0 21 10	23 Mar. (82) 13 Mar. (72)	3 Tues.	9989-4569 203-8116	937-8051 821-3407	263-3319 235-2464	4676 4677
2 Mar. (86) 26 Mar. (86)	1 Sun 2 Mon	6 13 19	1 Mar. (61)	5 Thur.	79-5345	668-5848	204-4231	4678
26 Mar. (85)	3 Tues.	18 57 37	20 Mar. (79)	4 Wed.	114-2169	604-5783	255-7336	4679
27 Mar. (86)	5 Thur.	1 9 45	9 Mar. (68)	1 Sun	9989-9398	451-8224	224-9104	4680
27 Mar. (86)	6 Fri	7 21 54	26 Feb. (57)	5 Thur.	9865-6626	299-0664	194-0872	4685
2 Mar. (86)	0 Sat	13 34 3	16 Mar. (76)	4 Wed.	9900-3450	235-0599	245 3975	4683
26 Mar. (85)	1 Sun.	19 46 12	5 Mar. (64)	1 Sun.	9776-0678	82-3039	214-5744 265-8848	468
27 Mar. (86)	3 Tues.	1 58 21	24 Mar. (83)	0 Sat,	9810-7501	18-2935 901-8331	237-7994	468
27 Mar. (88)	4 Wed.	8 10 30	14 Mar. (73)	5 Thur. 3 Tues.	25-1050 239-4598	785-3688	209-7139	468
26 Mar. (86)	5 Thur.	14 22 39	3 Mar. (63) 22 Mar. (81)	2 Mon	274-1423	721-3623	261-0244	468
26 Mar. (85)	6 Fri.	20 34 47	11 Mar. (70)	6 Fri	149-8651	568-6063	230-2012	468
27 Mar. (86) 27 Mar. (86)	1 Sun	8 59 5	28 Feb. (59)	3 Tues.	25-5879	415-8503	199-3780	468
26 Mar. (86)	3 Tues.	15 11 14	18 Mar. (78)	2 Mon	60-2703	351-8438	250-6883	469
26 Mar. (85)	4 Wed.	21 23 23	7 Mar. (66)	6 Fri	9935-9932	199-0879	219-8652	469
27 Mar. (86)	6 Fri	3 35 32	26 Mar. (85)	5 Thur.	9970-6755	135-0814	271-1756	469
27 Mar. (86)	0 Se t	9 47 40	15 Mar. (74)	2 Mon	9846-3985	982-3255	240-3524	461
26 Mar. (86)	1 San	15 59 49	4 Mar. (64)	0 Sat	60-7533	865-8612	212-2669	46
26 Mar, (85)		22 11 58	23 Mar. (82)	6 Fri	95-4356	802-8547	263-5774	46
27 Mar. (86)	4 Wed.	4 24 8	13 Mar. (72)	4 Wed.	309-7904	685-3903	235-4917	
27 Mar. (86)	5 Thur.	10 36 16	2 Mar. (61)	1 Sun	185-5133	532-6343	204-0687	100
26 Mar. (86)	6 Fri	16 48 25	19 Mar. (79)	6 Fri	9881-5636	432-3362	253-2413	88
26 Mar. (85)	0 Sat	23 0 33	8 Mar, (67)	3 Tues.	9757-2865		222-4181	4.00
27 Mar. (86)	2 Mon.	5 12 42	26 Feb. (57)	1 Sun. ,	9971-6413	163-1160	194-3328	47

		krama.	hr) year			JOVIAN SA	MVATSARA.	Intercalated and suppressed (ksh,) lunar
Kali.	Saka.	Chaitrādi Vikrama.	Meshadi (solar) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3.0	4	5	6	7	8
4701	1522	1657	1006	774-75	1599-00	33 Vikārin	42 Kilaka	
4702	1523	1658	1007	775-76	*1600-01		43 Saumya .	5 Śrāvaņa .
4703	1524	1659	1007	776-77	1601-02	34 Sarvarin	44 Sädhärana	
4704	1525	1660	1009	777-78	1602-03	36 Subhakrit	45 Virödhakrit .	***
4705	1526	1661	1010	778-79	1603-04	37 Śōbhana	46 Paridhāvin	4 Āshādha
4706	1527	1662	1011	779-80	*1604-05	38 Krödhin .	47 Pramādin	***
4707	1528	1663	1012	780-81	1605-06	39 Višvāvasu	48 Ananda	4
4708	1529	1664	1013	781-82	1606-07	40 Parābhava .	49 Rākshasa .	2 Vajšākha
4709	1530	1665	1014	782-83	1607-08	41 Piavanga .	50 Anala	***
4710	1531	1666	1015	783-84	*1608-09	42 Kilaka .	51 Pingala	6 Bhādrapada .
4711	1532	1667	1016	784-85	1609-10	43 Saumya .	52 Kālayukta .	100
4712	1533	1668	1017	785-86"	1610-11	44 Sādhāraņa ,	53 Siddhärthin .	***
4713	1534	1669	1018	786-87	1611-12	45 Virödhakrit .	54 Raudra .	5 Śrāvaņa .
4714	1535	1670	1010	787-88	*1612-13	46 Paridhāvin .	55 Durmati .	949
4715	1536	1671	1020	788-89	1613-14	47 Pramādin .	56 Dundubhi .	
4716	1537	1672	1021	789-90	1614-15	48 Ananda .	57 Rudhirödgårin	3 Jyështha .
4717	1538	1673	1022	790-91	1615-16	49 Rākshasa .	58 Raktāksha .	400
4718	1539	1674	1023	791-92	*1616-17	50 Anala .	59 Krödhana .	344
4719	1510	1675	1024	792-93	1617-18	51 Pingala .	60 Kahaya	1 Chaitra .
4720	1541	1676	1025	793-94	1618-19	52 Kālayukta .	l Prabhaya	275
4721	1542	1677	1026	794-95	1619-20	53 Siddhārthin .	2 Vibbava .	5 Srayana
4722	1543	1678	1027	795-96	*1620-21	54 Randra .	3 Sukla	***
4723	I RECEIVED	-1679	1028	796-97	1621-22	55 Durmati .	4 Framôda .	***
4724	1545	1680	1029	797-98	1622-23	56 Dunduhhi .	5 Prajāpatı .	4 Ashidna
4725	1546	1681	1030	798-99	1623-24	57 Rudhirödgårin	6 Angiras .	***

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		COMM	IENCEMENT (F THE				
	Solar YES		Luni-solar		N SUNBISE O		WHICH	Kali year.
Day and month, A.D.	Week- day.	Time of true Mësha- samkränti.	Day and month, A.D.	Week-day,	a.	6.	c.	
13	14	17	19	20	23	24	25	1
	- 1	H. M. S.		1				
27 Mar. (86)	3 Tues.	11 24 51	17 Mar. (76)	0 Sat, .	6-3237	99-1094	245-5239	4701
26 Mar, (86)	4 Wed.	17 37 0	6 Mar. (66)	5 Thur.	220-6785	982-6452	217-4772	4702
26 Mar. (85)	5 Thur.	23 49 9	25 Mar. (84)	4 Wed.	255-3609	918-6386	268-7875	4703
27 Mar. (86)	0 Sat	6 1 18	14 Mar. (73)	I Sun	131-0837	765-8827	237-9643	4704
27 Mar. (86)	1 Sun	12 13 26	3 Mar. (62)	5 Thur.	6-8066	613-1267	207-1411	4705
26 Mar. (86)	2 Mon	18 25 35	21 Mar. (81)	4 Wed.	41-4890	549-1202	258-4516	4706
27 Mar. (86)	4 Wed.	0 37 44	10 Mar. (69)	1 Sun. ;	9917-2118	396-3643	227 6283	4707
27 Mai, (86)	5 Thur.	6 49 53	27 Feb. (58)	5 Thur.	9792-9346	243-6083	196-8051	4708
27 Mar. (86)	6 Fri	13 2 2	18 Mar. (77)	4 Wed.	9827-8171	179-6018	248-1155	4709
26 Mar. (86)	0 Sat, .	19 14 11	7 Mar. (67)	2 Mon	41-9718	63-1374	220-0302	4710
27 Mar. (86)	2 Mon,	1 26 20	26 Mar. (85)	1 Sun	76-7452	999-1309	271-3405	4711
27 Mar. (86)	3 Tues.	7 38 28	16 Mar. (75)	6 Fri	291-0091	882-6666	243-2551	4712
27 Mar. (86)	4 Wed.	13 50 37	5 Mar. (64)	3 Tues.	166-7320	729-9107	212 4319	4713
26 Mar. (86)	5 Thur.	20 2 46	23 Mar. (83)	2 Mon. ,	201-4143	665-9042	263-7424	4714
27 Mar. (86)	0 Sat	2 14 55	12 Mar. (71)	6 Fri	77-1372	513-1482	232-9181	4715
27 Mar. (86)	1 Son	8 27 4	1 Mar. (60)	3 Tues.	9952-8600	360-3923	202-0958	4716
27 Mar. (86)	2 Mon	14 39 13	20 Mar. (79)	2 Mon.	9987-5423	296-4047	253 4063	4717
26 Mar. (86)	3 Tues.	20 51 21	8 Mar. (68)	6 Fri	9863-2652	143-6298	222-5831	4718
27 Mar. (86)	5 Thur.	3 3 30	26 Feb. (57)	4 Wed.	77-6201	27-1654	194-4977	4719
27 Mar. (86)	6 Fri	9 15 39	17 Mar. (76)	3 Tues.	112-3025	963-1589	245-8080	4720
27 Mar. (86)	0 Sat	15 27 45	6 Mrs. (66)	0 Sat	9988-0252	810-4030	214-9849	4721
26 Mar. (86)	1 San	21 59 57	24 M sr. (84)	6 Fri	22-7077	746-3965	266-2953	4722
27 Mar. (86)	3 Tues.	3 52 6	14 Mur. (73)	4 Wed.	237-0625	629-9332	238-2099	4723
27 Mar. (86)	4 Wed.	10 4 14	3 Mar. (62)	1 Sun .	112-7853	477-1763	207-2855	4724
27 Mar. (86)	5 Thur,	16 16 23	21 Mar. (80)	6 Fri.	9808-8357	376-8780	255-9593	4725

				co	NCURREN	T YEAR.		
		Tkrama	olar) year	Kollam.	A.D.	Joylan S	AMVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Saka.	Chaitradi Vikrama.	Meshadi (solar) in Bengal.	Konam.	A.D.	Southern system.	Northern system	months.
1	2	3	3a	4	5	6	7 7	8
4726	1547	1682	1031	799-00	*1624-25	58 Raktāksha ,	7 Srīmukha .	an e
4727	1548	1683	1032	800-01	1625-26	59 Krödhana .	8 Bhāva .	2 Vaišākha .
4728	1549	1684	1033	801-02	1626-27	60 Kshaya .	9 Yuvan .	***
4729	1550	1685	1034	802-03	1627-28	1 Prabhava .	10 Dhätri ,	6 Bhādrapada .
4730	1551	1686	1035	803-04	*1628-29	2 Vibhava .	11 Iśvara ,	Ann.
4731	1552	1687	1036	804-05	1629-30	3 Šukla	12 Bahudhānya ,	***
4732	1553	1688	1037	805-06	1630-31	4 Pramôda .	13 Pramāthin .	5 Śrāvaņa .
4733	1554	1689	1038	806-07	1631-32	5 Prajāpati .	14 Vikrama .	***
4734	1555	1690	1039	807-08	*1632-33	6 Angiras .	15 Vrisha	
4735	1556	1691	1040	808-09	1633-34	7 Śrimukha ,	16 Chitrabhānu .	3 Jyeshtha .
4736	1557	1692	1041	809-10	1634-35	8 Bhāva .	17 Subhānu .	*
4737	1558	1693	1042	810-11	1635-36	9 Yuvan .	18 Tāraņa .	
4738	1559	1694	1043	811-12	*1636-37	10 Dhātri .	19 Pārthiva	1 Chaitra .
4739	1560	1695	1044	812-13	1637-38	11 livara .	20 Vyaya .	***
4740	1561	1696	1045	813-14	1638-39	12 Bahudhānya .	21 Sarvajit .	5 Scāvaņa .
4741	1562	1697	1046	814-15	1639-40	13 Pramāthin	22 Sarvadhārin .	KAN.
4742	1583	1698	1047	815-16	*1640-41	14 Vikrama .	23 Virôdhin .	***
4743	1564	1699	1048	816-17	1641-42	15 Vrisha .	24 Vikrita .	4 Ashādha .
1744	1565	1700	1049	817-18	1642-43	16 Chitrabhann .	25 Khara .	
4745	1566	1701	1050	818-19	1543-44	17 Subhānu .	26 Nandana .	124
1746	1567	1792	1051	819-20	*1641-45	18 Taraņa	27 Vijaya .	2 Vaišākha
4747	1568	1703	1052	820-21	1645-46	19 Pärthiva .	28 Jaya .	
4748	1569	1704	1053	821-22	1646-47	20 Vyaya .	29 Manmatha .	6 Bhādrapada .
4749	1570	1705	1054	822-23	1647-48	21 Sarvajit .	30 Durmukha .	
4750	1571	1706	1055	823-24	*1648-49	22 Sarvadhārin .	31 Hémalamba .	
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LX-Contd.

		COMM	ENCEMENT O	FTHE						
Se	OLAR YEAR-		LUNI-SOLAR	LUNI-SOLAR YEAR (MEAN SUNRISE OF DAY ON WHICH CHAITRA SUKLA 1 ENDS).						
Day and month, A.D.	Week- day.	Time of true Mēsha- samkrānti.	Day and month, A.D.	Week-day.	a.	ь.	G.			
13	14	17	19	20	23	24	25	1		
26 Mar. (86)	6 Fci	H. M. 8 22 28 32	10 Mar. (70)	4 Wed	23-1906	260-4138	227:8739	4726		
27 Mar. (86)	1 Sun,	4 40 41	27 Feb. (58)	1 Sun	9898-9134	107-6578	197-0507	4727		
27 Mar. (86)	2 Mon	10 52 50	18 Mar. (77)	0 Sat	9933-5958	43-6413	248:3610	4728		
27 Mar. (86)	3 Tues.	17 4 59	8 Mar. (67)	5 Thur	147-9506	927-1870	220-2757	4729		
26 Mar. (86)	4 Wed.	23 17 7	26 Mar. (86)	4 Wed.	183-6330	862-1804	271-5861	4730		
27 Mar. (86)	6 Fri	5 29 16	15 Mar. (74)	1 Sun	58-3558	710-4245	240-7629	4731		
27 Mar. (86)	0 Sat	11 41 25	5 Mar. (64)	6 Fri	272-7107	593-9602	212-6774	4732		
27 Mar. (86)	1 Sun	17 53 34	23 Mar. (82)	4 Wed.	9968-7611	493-6620	261-2501	4733		
27 Mar. (87)	3 Tues	0 5 43	11 Mar (71)	1 Sun.	9814-4840	340-9061	230-4269	4734		
27 Mar. (86)	4 Wed.	6 17 52	28 Feb. (59)	5 Thur.	9720 2067	188-1500	199-6037	4735		
27 Mar. (86)	5 Thur.	12 30 1	19 Mar. (78	4 Wed.	9754-8891	124-14-6	250-9140	4736		
27 Mar. (86)	6 Fri .	18 42 9	9 Mar. (68 _j	2 Mon	9969-2440	7-6793	222-8286	4737		
27 Mar. (87)	1 Sun	0 54 18	27 Feb. (58)	0 Sat	183-5888	891-2150	194-7433	4738		
27 Mar. (86)	2 Mon	7 6 27	17 Mar. (76)	6 Fri	218-2812	827-2084	246-0536 215-2305	4739		
27 Mar. (86)	3 Tues.	13 18 36	6 Mar. (65)	3 Tues.	94-9040 128-6865	674-4525 610-4460	266-5408	4740		
27 Mar. (86)	4 Wed.	19 30 45	25 Mar. (84)	2 Mon . 6 Fri	4-3092	457-6800	235-7177	4741		
27 Mar. (87)	6 Fri	1 42 54	13 Mar. (73)	6 Fri 3 Tues.	9880-1321	304-9341	204-8934	4743		
27 Mar. (86)	0 Sat	7 55 2	2 Mar. (61)	25-25-10-25V	9914-8145	240-9275	256-2049	4744		
27 Mar. (86)	1 Sun	20 10 20	21 Mar. (80) 10 Mar. (69)	2 Mon 6 Fri	9790-5374	88-1716	225-3816	4745		
27 Mar. (86)	2 Mon. ,	MC 15	28 Feb. (59)	4 Wed	4-8921	971-7073	197-2962	4746		
27 Mar. (87) 27 Mar. (86)	4 Wed.	2 31 29 8 43 38	18 Mar. (77)	3 Tues.	39-5746	907-7008	248-6066	4747		
27 Mar. (86)	5 Thur. 6 Fri.	14 55 47	8 Mar. (67)	1 5un	253-9294	791-2365	220-1233	4748		
27 Mar. (86)	0 Sat.	21 7 55	27 Mar. (86)	0 Sat	288-6117	727-2299	271 8315	4749		
27 Mar. (87)	2 Mon	3 20 4	15 Mar. (75)	4 Wed.	164-1346	574-4740	247 0081	4730		

				CONC	JERENT Y	EAR.					
		krama.	ar) year			Jovian S.	AMVATSARA.	Intercalated and suppressed (ksh.) lunar			
Kali.	Sakn.	Chaltradi Vikrama.	Mēshādi (solar) y in Bengali.	Kollam.	A.D.	Southern system.	Northern system.	months.			
1	2	3	- 3a	4	5	6	7	8			
	-										
4751	1572	1707	1056	824-25	1649-50	23 Virôdhin .	32 Vilamba .	5 Śrāvaņa .			
4752	1573	1708	1057	825-26	1650-51	24 Vikrita .	33 Vikārin .	2211			
4753	1574	1709	1058	826-27	1651-52	25 Khara .	34 Sārvarin .	300			
4754	T575	1710	1059	827-28	*1652-53	26 Nandana .	35 Plava .	3 Jyeshtha			
4755	1576	1711	1060	828-20	1653-54	27 Vijaya .	36 Subhakrit .				
4756	1577	1712	1061	829-30	1654-55	28 Jaya .	37 Söbhana	7 Āśvina 10 Pausha (ksh.)			
4757	1578	1713	1062	830-31	1655-56	29 Manmatha .	38 Krödhin	1 Chaitra			
4758	1579	1714	1063	831-32	*1656-57	30 Durmukhs .	39 Visvāvasu .	***			
4759	1580	1715	1064	832-33	1657-58	31 Hēmalamba .	40 Parabhava	5 Srāvaņa .			
4760	1581	1716	1065	833-34	1658-59	32 Vilamba	41 Plavanga	V/- 0			
4761	1582	1717	1066	834-35	1659-60	33 Vikārin .	42 Kilaka .	7666			
4762	1583	1718	1067	835-36	*1660-61	34 Sarvarin .	43 Sanmya .	4 Āshāḍha .			
4763	1584	1719	1068	836-37	1661-62	35 Plava .	44 Sädhärana ,				
4764	1585	1720	1069	837-38	1662-63	36 Subhakrit .	45 Virödhakrit .	***			
4765	1586	1721	1070	838-39	1663-64	37 Söbhana .	46 Paridhāvin .	2 Vaisākha ,			
4766	1587	1722	1071	839-40	*1664-65	38 Krödhin .	47 Pramādin	1 1 2 M			
4767	1588	1723	1072	840-41	1665-66	39 Visvāvasu .	48 Ananda .	6 Bhādrapada .			
4768	1589	1724	1073	841-42	1666-67	40 Parābhaya .	49 Rākshasa	***			
4769	1590	1725	1074	842-43	1667-68	41 Plavanga .	50 Anala .	***			
4770	1591	1726	1075	843-44	*1668-69	42 Kilaka .	51 Pingala .	4 Āshādha .			
4771	1592	1727	1076	844-45	1669-70	43 Saumya .	52 Kālayukta ,				
4772	1593	1728	1077	845-46	1670-71	44 Sādhārana .	53 Siddhārthin :				
4773	1594	1729	1078	846-47	1671-72	45 Virðdhakrit .	54 Raudra† .	3 Jyështha			
4774	1595	1730	1079	847-48	*1672-73	46 Paridhāvin .	56 Dundubhi .	25.5			
4775	1596	1731	1080	848-49	1673-74	47 Pramādin .	57 Rudhiridgrin	7 Asvina 1 Māgha (ksh.)			
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† 55 Durmati was suppressed in the north.

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COMMENCEMENT OF THE												
8	OLAR YEAR.		LUNI-SOLAR		SUNIUSE OF		прен	Kali year.				
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	tta.	b.	c.					
13	14	17	19	20	23	24	25	1				
-		H. M. S.										
27 Mar. (86)	3 Tues.	9 32 13	4 Mar. (63)	1 Sun	40-0575	421-6980	210-1852	4751				
27 Mar. (86)	4 Wed.	15 44 22	23 Mar. (82)	0 Sat	74-7398	357-6915	261-4957	4752				
27 Mar. (86)	5 Thur.	21 56 31	19 Mar, (71)	4 Wed.	9950-1627	204-9916	230-6724	4753				
27 Mar. (87)	0 Sat	4 8 41	29 Feb. (60)	1 Sun	9826-1855	52-1996	199-8492	4754				
27 Mar. (86)	1 Sun	10 20 49	19 Mar. (78)	0 Sat.	9800-8679	958-1931	251-1596	4755				
27 Mar. (88)	2 Mon	16 32 58	9 Mar. (68)	5 Thur.	75-2227	871-7289	223-0742	4756				
27 Mar. (86)	3 Tues.	22 45 7	26 Feb. (57)	2 Mon	9970-9456	718-9728	192-2510	4757				
27 Mar. (87)	5 Thur.	4 57 16	16 Mar. (76)	1 Sun	9985-6280	654-9663	243-5614	4758				
27 Mar. (86)	6 Fri.	11 9 25	6 Mar. (65)	6 Fri	199-9828	538-5020	215-4762	4759				
27 Mar. (86)	0 Sat.	17 21 34	24 Mar. (83)	4 Wed.	9896-0332	438-2039	264-0487	4760				
27 Mar. (86)	1 Sun	23 33 43	13 Mar. (72)	1 Sun	9771-7560	285-5479	233-2254	4761				
27 Mar. (87)	3 Tues.	5 45 50	2 Mar. (62)	6 Fri	9386-1109	168-9836	205-1399	4762				
27 Mar. (86)	4 Wed.	11 57 59	21 Mar. (80)	5 Thur.	20-7932	101-9771	256-4504	4763				
27 Mar. (86)	5 Thur.	18 10 8	10 Mar. (69)	2 Mon	9896-5161	952:2211	225-6272	4764				
28 Mar. (87)	0 Sat	0 22 17	28 Feb. (59)	0 Sat	110-8709	835-7568	197-5418	4765				
27 Mar. (87)	1 Sun	6 34 26	18 Mar. (78)	6 Fri	145-5534	771-7503	248-8521	4766				
27 Mar. (86)	2 Mon, ,	12 46 35	7 Mar. (66)	3 Tues.	21-2761	618-9944	218-0290	4767				
27 Mar. (86)	3 Tuest.	18 58 43	26 Mar. (85)	2 Mon	55-9585	554:9879	209-3394	4768				
28 Mar. (87)	5 Thur.	1 10 52	15 Mar. (74)	6 Fri	9931-6814	402-2319	238-5162	4769				
27 Mar. (87)	6 Fri	7 23 1	3 Mar. (63)	3 Tues.	9807-4042	249-4760	207-6929	4770				
27 Mar. (86)	0 Sat	13 35 10	22 Mar, (81)	2 Mon	9842-0866	185-4694	259-0034	4771				
27 Mar. (86)	1 Sun, .	19 47 19	12 Mar. (71)	0 Sat, .	56-4415	69-0051	230-0180	4772				
28 Mar. (87)	3 Tues.	1 59 28	1 Mar. (60)	4 Wed.	9932-1643	910-2491	200-0948	4773				
27 Mar. (87)	4 Wed.	8 11 36	19 Mar. (79)	3 Tues.	9966-8466	852-2426	251-4051	4774				
27 Mar. (86)	5 Thur.	14 23 45	9 Mar. (68)	I Sun.	181-2015	735-7788	223-3197	4775				

TABLE

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				CONCU	RRENT Y	EAR.		
		стаппа	ir) year			JOVIAN SA	MVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Saka.	Chaitrādi Vikrama.	Meshadi (solar) in Bengal.	Kollam	A.D.	Southern system.	Northern system.	months.
1	2	3	3a	4	- 5	6	7	8
4776	1597	1732	1081	849-50	1674-75	48 Ananda .	58 Raktāksha .	1 Chaitra
4777	1598	1733	1082	850-51	1675-76	49 Rākshasa .	59 Krēdhana .	1000
4778	1599	1734	1083	851-52	*1676-77	50 Anala .	60 Kshaya .	5 Śrāvana .
4779	1600	1735	1084	852-53	1677-78	51 Pingala .	1 Prabhava .	(999)
4780	1601	1736	1085	853-54	1678-79	52 Kālayukta .	2 Vibhara .	2000
4781	1602	1737	1086	854-55	1679-80	53 Siddhārthin .	3 Šukla .	3 Jyështha‡ .
4782	1603	1738	1087	855-56	*1680-81	54 Raudra .	4 Pramida .	***
4783	1604	1739	1088	856-57	1681-82	55 Durmati .	5 Prajūpati .	
4784	1605	1740	1089	857-58	1682-83	56 Dundubhi .	6 Angiras .	2 Valšākha .
4785	1606	1741	1090	858-59	1683-84	57 Rudhirödgärin	7 Śrimukha .	100 (
4786	1607	1742	1091	859-60	*1684-85	58 Raktāksha .	8 Bhāva .	6 Bhādrapada .
4787	1608	1743	1092	860-61	1685-86	59 Krôdhana .	9 Yusan .	***
4788	1609	1744	1093	861-62	1686-87	60 Kshaya .	10 Dhātri .	
4789	1610	1745	1094	862-63	1687-88	1 Prabhava .	11 Isvara	4 Åshädha .
4790	1611	1746	1095	863-64	*1688-89	2 Vibhava .	12 Bahudhānya .	***
4791	1612	1747	1096	864-65	1689-90	3 Sukla .	13 Pramathin .	140
4792	1613	1748	1097	865-66	1690-91	4 Pramoda .	14 Vikrama .	3 Jyčshtha .
4793	1614	1740	1098	866-67	1691-92	5 Prajāpati .	15 Vrisha .	
4794	1615	1750	1009	867-68	*1692-93	6 Angiras .	16 Chitrabhānu .	7 Asvina .
4795	1616	1751	1100	868-69	1693-94	7 Srimukha .	17 Subhānu .	140
4796	1617	1752	1101	869.70	1694-95	8 Bhāva .	18 Tārana .	
4797	1618	1753	1102	870-71	1695-96	9 Yuvan .	19 Pārthiva ,	5 Śrāvaņa .
4798	1619	1754	1103	871.72	*1696-97	10 Dhātri .	20 Vyaya .	70.000
4799	1620	1755	1104	872-73	1697-98	11 Iśvara .	21 Sarvajit .	040
4800	1621	1756	1105	873.74	1698-99	12 Bahudhānya .	22 Sarvadhārin .	3 Jyčshtha .

‡ See Remarks, p. 163 above.

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			COM	MENCEMENT O	F THE				l
So	LAR YEAR-			LUNI-SOLAR		SUNRISE OF		ишен	Kali
Day and month, A.D.	Week- day.	true	me of Mësha- kranti.	Day and month, A.D.	Week-day.	g.	b.	c	year.
13	14		17	19	20	23	24	25	1
27 Mar. (86)	6 Fri	H. 20	M. S. 35 54	26 Feb. (57)	5 Thur.	56-9244	583-0221	192-4966	4776
28 Mar. (87)	1 Sun	2	48 3	17 Mar. (76)	4 Wed.	91-6067	519-0158	243-8070	4777
27 Mar. (87)	2 Mon.	9	0 12	5 Mar. (65)	1 Sun	9967-3296	366-2599	212-9837	4778
27 Mar. (86)	3 Tues.	15	12 21	24 Mar. (83)	0 Sat	2-0120	302-2534	264-2942	4779
27 Mar. (86)	4.Wed.	21	24 30	13 Mar. (72)	4 Wed.	9877-7348	149-4947	233-4710	4780
28 Mar. (87)	6 Fri. ,	3	36 38	3 Mar. (62)	2 Mon	92-0896	33-0331	205-3855	4781
27 Mar (87)	0 Sat.	9	48 47	21 Mar. (81)	1 Sun.	126-7720	969-0266	256-6959	4782
27 Mar (86)	1 Sun	16	0 56	10 Mar. (69)	5 Thur.	2-4949	816-2706	225-8727	4783
27 Mar (86)	2 Mon	22	13 5	28 Feb. (59)	3 Tues.	216-8496	699-8023	197-7874	4784
28 Mar. (87)	4 Wed.	4	25 14	19 Mar. (78)	2 Mon.	251-5321	635-7998	249-0977	4785
27 Mar. (87)	5 Thur.	10	37 23	7 Mar. (67)	6 Fri	127-2548	483-0439	218-2745	4786
27 Mar. (86)	6 Fri	16	49 31	25 Mar. (84)	4 Wed.	9823-3054	382-7457	266-8471	4787
27 Mar. (86)	0 Sat	23	1 40	15 Mar. (74)	2 Mon.	37-6601	266-2813	238-7618	4788
28 Mar. (87)	2 Mon.	5	13 49	4 Mar. (63)	6 Fri.	9913-3830	113-5254	207-9385	4789
27 Mar. (87)	3 Tues.	11	25 58	22 Mar. (82)	5 Thur.	9948-0654	49-5189	259-2489	4790
27 Mar. (86)	4 Wed.	17	38 7	12 Mar. (71)	3 Tues.	162-4203	933-0538	231-1635	4791
27 Mar. (86)	5 Thur.	23	50 16	1 Mar. (60)	0 Sat	38-1430	780-2987	200-3403	4792
28 Mar. (87)	0 Sat.	6	2 24	20 Mar. (79)	6 Fri	72-8254	716-2821	251-6507	4793
27 Mar. (87)	1 Sun.	12	14 33	8 Mar. (68)	3 Tues.	9918-5483	563-5362	220-8275	4794
27 Mar. (86)	2 Mon	18	26 42	27 Mar. (86)	2 Mon.	9983-2306	499-5297	272-1379	4795
28 Mar. (87)	4 Wed.	0	38 51	16 Mar. (75)	6 Fri	9858-9535	346-7737	241-3148	4796
28 Mar. (87)	5 Thur.	6	51 0	5 Mar. (64)	3 Tues.	9734-6764	194:0177	219-4915	4797
27 Mar (87)	6 Fri .	13	3 9	23 Mar. (83)	2 Mon.	9769-3587	130-0112	261 8019	4798
27 Mar. (86)	0 Sat	19	15 17	13 Mar. (72)	0 Sat	9983-7135	13-5469	233-7165	4799
28 Mar. (87)	2 Mon.	1	27 26	3 Mar. (62)	5 Thur.	198-0684	807-0827	205-6311	480C

TABLE

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				CONCU	RRENT YI	AR.		
		krama.	r) year			JOVIAN SAN	IVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Saka.	Chaitradi Vikrama.	Mashadi (sola) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1.	2	3	3a	4	5	6	7	8
4801	1622	1757	1106	874-75	1699-00	13 Pramāthin .	23 Virôdhin .	
4802	1623	1758	1107	875-76	*1700-01	14 Vikrama	24 Vikrita	
4803	1624	1759	1108	876-77	1701-03	15 Vrisha .	25 Khara	2 Vaisākha .
4804	1625	1760	1100	877-78	1702-03	16 Chitrabhānu .	26 Nandana .	
4805	1626	1761	1110	878-70	1703-04	17 Subhānu	27 Vijaya	6 Bhādrapada
4806	1627	1762	1111	879-80	*1704-05	18 Turaya	28 Jaya	
4807	1628	1763	1113	880-81	1705-08	19 Pärthiva	29 Manmatha .	100
4808	1629	1764	1113	881-82	1705-07	20 Vyaya	30 Durmukha .	4 Åshådha .
4809	1630	1765	1114	882-83	1707-08	21 Sarvajit .	31 Hēmalamba .	4.0
4810	1631	1766	1115	883-85	*1703:00	22 Sarvadhārin .	32 Vilamba	
4811	1632	1767	1116	884-85	1709-10	23 Virðdhin .	33 Vikārin	3 Jyčahtha .
4812	1633	1768	1117	885-86	1710-11	24 Vikrita	34 Šārvarin .	1941
4813	1634	1769	1118	886-87	1711-12	25 Khara	35 Plava	7 Aivina .
4814	1635	1770	1110	887-88	*1712-13	26 Nandana .	36 Subhakrit .	2944
4815	1636	1771	1120	888-80	1713-14	27 Vijaya	37 Söbhana .	300
4816	1637	1772	1121	889-90	1714-15	28 Jaya	38 Krödhin ,	5 Śrāvaņa .
4817	1638	1773	1122	890-91	1715-16	20 Manmatha .	39 Viścāvasu .	
4818	1639	1774	1123	891-92	*1716-17	30 Durmukha .	40 Parabhava	The state of
4819	1640	1775	1124	892-93	1717-18	31 Hēmalamba .	41 Playanga .	4 Åshādha† .
4820	1641	1776	1125	893-94	1718-10	32 Vilamba .	42 Kilaka	
4821	1642	1777	1126	894-95	1719-20	33 Vihārin .	43 Saumya .	(9
4822	1643	1778	1127	895-96	*1720-21	34 Sărvarin .	44 Sādhāraņa .	1 Chaitra .
4823	1644	1779	1128	896-97	1721-22	35 Plava	45 Virodhakrit .	
4824	1645	1780	1129	897-98	1722-23	36 Šubhakrit .	46 Paridhāvin .	6 Bhādrapada
4825	1646	1781	1130	898-99	1723-24	37 Söbbana .	47 Premādin .	*
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† See Remarks, p. 163 above,

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1			COM	MENCEMENT (OF THE				163
	Bo	LAB YEAR.		LUNI-SOLAR Y	CHAITRA SU	SUNRISE OF	DAY ON W	итси	Kali
Married Marrie	Day and month, A.D.	Week-	Time of true Mēsha- samkrānti.	Day and month, A.D.	Week-day.	a.	ь.	4	year.
1	13	14	17	19	20	23	24	25	1
-	28 Mar. (87)	3 Tues.	H. M. S. 7 39 35 13 51 44	22 Mar. (81) 10 Mar (70)	4 Wed.	232-7508 108-4737	833-0761 680-3202	256-8610 226-0378	4801 4802
١	27 Mar. (87) 27 Mar. (86)	4 Wed.	20 3 53	27 Feb. (58)	5 Thur.	9984-1965	527-5642	195-2146	4803
1	28 Mar. (87) 28 Mar. (87)	0 Sat 1 Sun.	2 16 2 8 28 11	18 Mar. (77) 7 Mar. (66)	4 Wed.	18-8789 9894-6017	463-5577 310-8017	246-5249 215-7018	4804
	27 Mar. (87)	2 Mon.	14 40 19	25 Mar. (85)	0 Sat	9929-2842 9805-0069	246-7952 94-9493	267-0122 236-1890	4806 4807
	27 Mar. (86) 28 Mar. (87)	3 Tues. 5 Thur.	20 52 28 3 4 37	14 Mar. (73) 4 Mar. (63)	4 Wed.	19-3618	977-5750	208-1035	4808
	28 Mar. (87) 27 Mar (87)	6 Fri 0 Sat	9 16 46	23 Mar. (82) 12 Mar. (72)	1 Sun 6 Fri	54-0442 268-3990	913-5685 797-1041	259-4140 231-3286	4809 4810
	27 Mar. (86)	1 Sun	21 41 4	1 Mar. (60)	3 Tues. 2 Mon	144-1218 178-8042	644-3482 580-3416	200-5053 251-8157	4811 4812
	28 Mar. (87) 28 Mar. (87)	3 Tues. 4 Wed.	3 53 12 10 5 21	20 Mar. (79) 9 Mar. (68)	6 Fri	54-5271	427-5857	220-9926	4813
	27 Mar. (87) 27 Mar. (86)	5 Thur. 6 Fri.	16 17 30 22 29 39	26 Mar. (86) 16 Mar. (75))	4 Wed. 2 Mon.	9750-5774 9964-9323	327-2876 210-8232	269-5652 241-4798	4814 4815
	28 Mar. (87)	1 Sun	4 41 48	5 Mar. (64)	6 Fri	9840-6552 9875-3375	58-0673 994-0697	210-6565 261-9670	4816 4817
	28 Mar. (87) 27 Mar. (87)	2 Mon. 3 Tues.	10 53 57 17 6 5	24 Mar. (83) 13 Mar. (73)	5 Thur. 3 Tues.	89-6023	877-5964	233-8816	4818
	27 Mar (86) 28 Mar. (87)	4 Wed. 6 Fri	23 18 14 5 30 23	3 Mar. (62) 21 Mar. (80)	1 Sun 6 Fri	304-0472 0-0976	761+1321 660-8340	205•7961 254•3677	4819 4820
	28 Mar (87)	0 Sat. ,	11 42 32	11 Mar. (70))	4 Wed.	214-4524	544-3697	226-2833 196-4602	4821 4822
	27 Mar. (87) 28 Mar (87)	3 1020	0 6 50	28 Feb. (59)) 17 Mar. (76)	1 Sun 6 Frt	90-1752 9786-2257	391-6138 291-3156	244-0328	4823
	28 Mar. (87) 28 Mar (87)	7/5/77	6 18 58 12 31 7	7 Mar. (66) 26 Mar (85)	4 Wed. 3 Tues.	0-5804 35-2629	174·8513 110·8447	215-9473 267-2577	4824 4825
	20 1111 (01)			The second second	No or Street				-

				CONCL	JRRENT Y	EAR.		
Kali.	Saka.	Chaitradi Vikrama.	Mēshādi (solar) year in Bengal,	Kollam.	A.D.	Jovian S. Southern system.	Northern system.	Interculated and suppressed (ksh.) lunar months.
1	2	3	3a	4	5	6	7	8
4826 4827 4828 4829 4830 4831 4832 4833 4834 4835 4836 4837 4838 4839 4840 4841 4842	1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663	1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798	1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147	899-00 900-01 901-02 903-03 903-04 904-05 905-06 906-07 907-08 908-09 909-10 910-11 911-12 912-13 913-14 914-15 915-16	*1724-25 1725-26 1726-27 1727-28 *1728-29 1729-30 1730-31 1731-32 *1732-33 1733-34 1734-35 1735-36 *1736-37 1737-38 1738-39 1739-40 *1740-41 1741-42	38 Krödhin 39 Visvāvasu 40 Parābhava 41 Plavanga 42 Kilaka 43 Saumya 44 Sādhārana 45 Virōdhakrit 46 Paridhāvin 47 Pramādin 48 Ānanda 49 Rākshasa 50 Anala 51 Pingala 52 Kālayukta 53 Siddhārthin 54 Raudra	48 Ānanda . 49 Rākshaša . 50 Anala 51 Piģgala . 52 Kālayukta . 53 Siddhārthin . 54 Raudra 55 Durmati . 56 Dundubhi . 57 Rudhirōdgārin 58 Raktāksha . 59 Krōdhana . 60 Kshaya . 1 Prabhava . 2 Vibhava . 3 Sukla 4 Pramōda . 5 Prajāpati .	4 Ashādha
4845 4846 4847	1665 1666 1667 1668	1800 1801 1802 1803	1149 1150 1151 1152	917-18 918-19 919-20 920-21	1742-43 1743-44 *1744-45 1745-46	56 Dundubhi . 57 Rudhirōdgārin 58 Raktāksha *.	6 Afigiras	4 Ashāḍha .
4848 4849 4850 4551	1669 1670 1671 1672	1804 1805 1806 1807	1153 1154 1155 1156	921-22 923-23 923-24 924-25	1746-47 1747-48 *1748-49 1749-50	59 Krödhana 60 Kshaya 1 Prabhaya 2 Vibhaya 3 Sukla	9 Yuvan	2 Vaišākha
4852	1673	1808	1157	925-26	1750-51	4 Pramôda .	14 Vikrama .	

† See Remarks, p. 163 above.

LX-Contd.

		COI	MENCEMENT	OF THE						
S	OLAR YEAR.		LUNI-SOLAR		N SUNRISE O	OF DAY ON OS).	WHICH	Kali		
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	d.	ь.	č.	year.		
13	14	17	19	20	23	24	25	1		
		H. M. S.			7					
27 Mar (87)	6 Fri	18 43 16	14 Mar. (74)	0 Sat	9910-9857	958-0888	236-4346	4826		
28 Mar (87)	I Sun	0 55 25	4 Mar. (63)	5 Thur.	125-3406	841-6245	208-3491	4827		
28 Mar. (87)	2 Mon.	7 7 34	23 Mar. (82)	4 Wed.	160-0229	777-6180	259-6595	4828		
28 Mar. (87)	3 Tues.	13 19 43	12 Mar (71)	1 Sun	35:7458	624-8621	228-8363	4829		
27 Mar (87)	4 Wed.	19 31 52	29 Feb. (60)	5 Thur.	9911-4686	472-1060	198-0132	4830		
28 Mar. (87)	6 Fri	1 44 0	19 Mar. (78))	4 Wed.	9946-1510	408-0996	249-3235	4831		
28 Mar. (87)	0 Sat	7 56 9	8 Mar. (67)	1 Sun-	9821-8738	255-3436	218-5003	4832		
28 Mar. (87)	1 Sun	14 8 18	27 Mar (86)	0 Sat	9856-5562	191-3371	269-8107	4833		
27 Mar. (87)	2 Mon	20 20 27	16 Mar. (76)	5 Thur.	70-9111	74-8718	241-7254	4834		
28 Mar. (87)	4 Wed.	2 32 36	5 Mar. (64)	2 Mon.	9946-6339	922-0868	210-9021	4835		
28 Mar. (87)	5 Thur.	8 44 45	24 Mar. (83)	1 Sun	9981-3163	858-1103	262-2125	4836		
28 Mar. (87)	6 Fri	14 56 53	14 Mar. (73)	6 Fri	195-6711	741-6459	234-1271	4837		
27 Mar. (87)	0 Sat	21 9 2	2 Mar. (62))	3 Tues.	71-3840	588-8900	203-3039	4838		
28 Mar. (87)	2 Mon.	3 21 11	21 Mar. (80)	2 Mon.	106-0763	524-8835	254-6143	4839		
28 Mar. (87)	3 Tues.	9 33 20	10 Mar. (89)	6 Fri	9981-7992	372-1276	223-7911	4840		
28 Mar (87)	4 Wed.	15 45 29	27 Feb (58))	3 Tnea	9857-5221	219-3716	192-9679	4841		
27 Mar. (87)	5 Thur.	21 57 38	17 Mar. (77)	2 Mon	9892-2044	155-3650	244-2783	4842		
28 Mar. (87)	0 Sat	4 9 46	7 Mar. (66)	0 Sat	106-5592	38-9008	216-1929	4843		
28 Mar. (87)	1 Sun. ,	10 21 55	26 Mar. (85)	6 Fri	141-2417	974-8942	267-5033	4844		
28 Mar. (87)	2 Mon.	16 34 4	15 Mar. (74)	3 Tues.	16-9645	822-1383	236-6801	4845		
27 Mar. (87)	3 Tues.	22 46 13	4 Mar. (64)	1 Sun	231-3193	705-6740	208-5946	4846		
28 Mar. (87)	5 Thur.	4 58 22	23 Mar. (82)	0 Sat	266-0017	641-6675	259-9051	4847		
28 Mar. (87)	6 Fri	11 10 31	12 Mar. (71)	4 Wed.	141-7246	488-9116	229-0819	4848		
28 Mar. (87)	0 Sat .	17 22 39	1 Mar. (60)	1 Sun.	17-4473	336-1555	198-2587	4849		
27 Mar. (87)	1 Sun	23 34 48	19 Mar. (79)	0 Sat	52-1298	272-1491	249-5690	4850		
28 Mar (87)	3 Тиек.	5 46 57	8 Mar (67)	4 Wed.	9928-8526	119-3931	218-7459	4851		
28 Mar (87)	4 Wed.	11 59 6		3 Tues.	9962-5349	55-3866	270-0563			
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TABLE

-			_	CON	CURRENT	VEAR		
	-			004	COMME	A AMERICA		
Kali	Salen.	Chaitradi Vikrama.	Meshidd (solar) year in Bengal.	Kollam.	A.D.	JOVIAN Sa Southern system.	Northern system.	Intercalated and suppressed (ksh.) lunar months.
1	2	3	3a	4	- 5	6	7	8
-	-		- Oct	- 12	100			
4853	1674	1809	1158	926-27	1751-52	5 Prajāpati .	15 Vrisha	i
4854	1675	1810	1159	927-28	*1752-53	6 Angiras . ,	16 Chitrabhānu .	5 Śrāvaņa .
4855	1676	1811	1160	928-29	1753-54	7 Śrimukha .	17 Subhānu .	
4856	1677	1812	1161	929-30	1754-55	8 Bhāva	18 Tăraņa	166
4857	1678	1813	1162	930-31	1755-56	9 Yuvan	19 Parthiva	3 Jyështha .
4858	1679	1814	1163	931-32	*1756-57	10 Dhātri	20 Vynya*	346.
4859	1680	1815	1164	932-33	1757-58	11 Iśvara	22 Sareadkārin .	1 Tee. = 1
4860	1681	1816	1165	933-34	1758-59	12 Bahudhānya .	23 Firedhia	1 Chaitra .
4861	1682	1817	1166	934-35	1759-60	13 Pramáthin .	24 Vikrita	
4862	1683	1818	1167	935-36	*1760-61	14 Vikrama	25 Khara	5 Srāvaņa
4863	1684	1819	1168	936-37	1761-62	15 Vrisha	26 Nandana .	
4864	1685	1820	1169	937-38	1762-63	16 Chitrabhāhu .	27 Vijaya	***
4865	1686	1821	1170	938-39	1763-64	17 Subhānu .	28 Jaya	4 Ashādha .
4866	1687	1822	1171	939-40	*1764-65	18 Tāraņa	29 Manmatha ' .	y. How
4867	1688	1823	1172	940-41	1765-66	19 Pärthiva .	30 Durmukha .	
4868	1689	1824	1173	941-42	1766-67	20 Vyaya	31 Himalamba .	2 Vaišākha .
4869	1690	1825	1174	942-43	1707-68	21 Sarvajit .	32 Vilamba .	
4870	1691	1826	1175	943-44	*1768-69	22 Sarvadhārin .	33 Vikārin	6 Bhādrapada .
4871	1692	1827	1176	944-45	1769-70	23 Virödhin .	34 Śārvaria .	
4872	1693	1828	1177	945-46	1770-71	24 Vikrita	35 Plana	
4873	1694	1829	1178	945-47	1771-72	25 Khara	36 Śubhakrit .	5 Srāvaņa .
4874	1695	1830	1179	947-48	*1772-73	26 Nandama .	37 Śōbhana .	A Itmess
4875	1696	1831	1180	948-49	1773-74	27 Vijaya	38 Krődhin .	
4876	1697	1832	1181	949-50	1774.75	28 Jaya	39 Viávāvasu .	3 Jyeahtha .
4877	1698	1833	1182	950-51	1775-76	29 Manmatha .	40 Parābhava .	4
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^{· 21} Sarvajit was suppressed in the north.

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	COMMENCEMENT OF THE												
			-			COA							
Kali	vincu	DAY ON W	SUNRISE OF	CHAFTRA	LUNI-SOLAR		LAR YEAR.	Sc					
year.	Ĉ.	b.	a.	Week- day.	Day and month, A.D.	Time of true Mësha- samkranti.	Week- day.	Day and month, A.D.					
1	25	24	23	20	19	17	14	13					
4853	241-9708	938-9222	176-8898	1 San.	17 Mar. (76)	18 11 15	5 Thur.	28 Mar. (87)					
4854	211-1475	876-1662	52-6127	5 Thur.	5 Mar. (65)	0 23 24	0 Sat	28 Mar. (88)					
4855	262-4580	722-1597	87-2951	4 Wed	4 Apr. (94)*	6 35 33	1 Sun.	8 Apr. (98)*					
4856	231-6348	569-4038	9963-0179	1 Sun.	24 Mar. (83)	12 47 42	2 Mon	8 Apr. (98)					
4857	200-8115	416-6478	9838 7407	5 Thur.	13 Mar. (72)	18 59 50	3 Tues.	8 Apr. (98)					
4858	252-1219	352-6412	9873-4231	4 We-1.	31 Mar. (91)	1 11 59	5 Thur.	8 Apr. (99)					
4859	221-2988	199-8853	9749-1460	1 Sun.	20 Mar. (79)	7 24 8	6 Fri	8 Apr. (98)					
4860	193-2123	83-4211	9963-5007	6 Fri	10 Mar. (69)	13 36 17	0 Sat	8 Apr. (98)					
4861	244-5237	19-4145	9998-1832	5 Thur.	29 Mar. (88)	19 48 26	1 Sun.	8 Apr. (98)					
4862	216-4383	902-9502	212-5380	3 Tues	18 Mar. (78)	2 0 35	3 Tues	8 Apr. (99)					
486	277-7387	838:9437	247-2204	2 Mon	6 Apr. (96)	8 12 43	4 Wed	8 Apr. (98)					
486	236-9256	686-1877	121-9432	6 Fri	26 Mar. (85)	14 24 52	5 Thur.	8 Apr. (98)					
486	206-1023	533-4318	9998-6661	3 Tues	15 Mar. (74)	20 37 1	6 Fri.	8 Apr. (98)					
486	257-4127	469-5252	33-3485	2 Mon.	2 Apr. (93)	2 49 10	1 Sun	8 Apr. (99)					
4867	226-5895	316-6693	9909-0713	6 Fri.	22 Mar. (81)	9 1 19	2 Mon	8 Apr. (98)					
4868	195-7664	163-9134	9784-7941	3 Tues	11 Mar. (70)	15 13 28	3 Tues	8 Apr. (98)					
4865	247-0767	99-9068	9819-4766	2 Mon	30 Mar. (89)	21 25 36	4 Wed.	8 Apr. (98)					
4870	218-9913	983-4426	33-8313	0 Sat	19 Mar. (79)	3 37 45	6 Fri	8 Apr. (99)					
487	270-3017	919-4380	68-5137	6 Fri	7 Apr. (97)	9 49 54	0 Sat	8 Apr. (98)					
187	242-2164	802-9717	282-8685	4 Wed	28 Mar. (87)	16 2 3	1 Sun.	8 Apr. (98)					
487	211-3931	650-2158	158-5915	1 Sun	17 Mar. (76)	22 14 12	2 Mon	8 Apr. (98)					
487	262-7035	586-2002	193-2738	0 Sat	4 Apr. (95)	4 26 21	4 Wed	8 Apr. (99)					
487	231-8803	433-4533	67-9967	4 Wed	25 Mar. (83)	10 38 29	5 Thur-	8 Apr. (98)					
4876	201-0571	290-6973	9944-7195	1 Sun	13 Mar. (72)	16 50 38	6 Fri	8 Apr. (98)					
487	252-3675	216-6908	9979-5018	0 Sat	1 Apr. (91)	700 CON 100	0 Sat	8 Apr. (98)					

^{*} From here (inclusive) forward the dates A. D. are New Style.

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				CONCU	RRENT Y	EAR.		
Kali.	Ŝaka.	Chaitrādi Vikrama-	Meshidi (solar) year in Bengal.	Kollam.	A.D.	Jovian S Southern system.	Northern system.	Intercalated and suppressed (ksh.) lunar months.
1	2	3	3a	4	5	6	7	8
4878 4879 4880 4881	1699 1700 1701 1702	1834 1835 1836 1837	1183 1184 1185 1186	951-52 952-53 953-54 954-55	*1776-77 1777-78 1778-79 1779-80	30 Durmukha . 31 Hēmalamba . 32 Vilamba . 33 Vikārin .	41 Plavanga . 42 Kīlaka 43 Saumya . 44 Sādhāraņa .	1 Chaitra
4882	1703	1838	1187 1188	955-56 956-57	*1780-81 1781-82	34 Śārvarin - 35 Plava	45 Virödhakrit . 46 Paridhāvin .	***
4884	1705	1840	1189	957-58	1782-83	36 Subhakrit .	47 Pramādin .	4 Āshādha .
4885	1706	1841	1190	958-59	1783-84	37 Śōbhana .	48 Ānanda	
4886	1707	1842	1101	959-60	*1784-85	38 Krödhin .	49 Rākshasa -	
4887	1708	1843	1192	960-61	1785-86	39 Višvāvasu .	50 Anala	2 Vajšākha .
4888	1709	1844	1193	961-62	1786-87	40 Parābhava .	51 Pingala	***
4889	1710	1845	1194	962-63	1787-88	41 Playanga .	52 Kâlayukta .	6 Bhādrapada .
4890	1711	1846	1195	963-64	*1788-89	42 Kilaka	53 Siddhārthin .	
4891	1712	1847	1196	964-65	1789-90	43 Saumya .	54 Raudra	
4892	1713	1848	1197	965-66	1790-91	44 Sādhāraņa .	55 Durmati .	5 Śrāvaņa .
4890	1714	1849	1198	966-67	1791-92	45 Virôdhakrit .	56 Dundubhi .	377
489	1715	1850	1199	967-68	*1792-93	46 Paridhāvin .	57 Rudhirödgärin	-
489	5 1716	1851	1200	968-69	1793-94	47 Pramādin .	58 Raktāksha	3 Jyështha .
489	6 1717	1852	1201	969-70	1794-95	48 Ananda	59 Krödhana	· · · · · · · · · · · · · · · · · · ·
489	7 1718	1853	1202	970-71	1795-96	49 Rākshasa .	60 Kshaya	(7 Åsvina) 10 Pausha(Ksh)
489	8 1710	1854	1200	971-72	*1796-97	50 Anala	1 Prabhava	. 1 Chaitra .
489	9 1720	1855	120	972-73	1797-98	51 Pingala	2 Vibbava	
490	0 1721	1856	1200	973.74	1798-99	52 Kālayukta .	3 Sukla .	. 5 Srāyaņa .
490	1 178	1857	120	6 974-75	1799-00	53 Siddhärthin .	4 Pramöda	***
490	2 1723	1858	120	975-76	1800-01	† 54 Raudra	5 Prajápati	
-	-	1	-	-	Library and the w	00 A. Thomas not a L	THE PERSON OF TH	

[†] The year 1800 A. D. was not a Leap-year.

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				OF THE	MENCEMENT	COM		
Kali year.		DAY ON WH	SUNRISE OF KLA 1 ENDS	EAR (MEAN CHAITRA SU	LUNI-SOLAR Y		LAB YEAR.	So
	с,	b.	a.	Week- day-	Day and month, A.D.	Time of true Mësha- samkranti.	Week- day.	Day and month, A.D.
1	25	24	23	20	19	17	14	13
4878	221-5443	63-9348	9855-1247	4 Wed	20 Mar. (80)	5 14 56	2 Mon	8 Apr. (99)
4879	193-4578	947-4706	69-4795	2 Mon	10 Mar. (69)	11 27 5	3 Tues	8 Apr. (98)
4880	244-7693	883-4640	104-1620	1 Sun.	29 Mar. (88)	17 39 14	4 Wed	8 Apr. (98)
4881	216-6839	708-9997	318-5167	6 Fri.	19 Mar. (78)	23 51 23	5 Thur.	8 Apr. (98)
4882	265-2565	666-7016	14-5672	4 Wed	5 Apr. (96)	6 3 31	0 Sat.	8 Apr. (99)
4883	234-4333	513-9455	9890-2900	1 Sun.	25 Mar. (84)	12 15 40	1 Sun.	8 Apr. (98)
4884	203-6101	361-1896	9766-0129	5 Thur.	14 Mar. (73)	18 27 49	2 Mon.	8 Apr. (98)
4885	254-9205	297-1831	9800-7952	4 Wed	2 Apr. (92)	0 39 58	4 Wed	9 Apr. (99)
4886	226-8350	180-7188	15-0501	2 Mon. ,	22 Mar. (82)	6 52 6	5 Thur.	8 Apr. (99)
4887	196-0119	27-9629	9890-7729	6 Fri.	11 Mar. (70)	13 4 16	6 Fri	8 Apr. (98)
4888	247-3223	963-9563	9925-4553	5 Thur.	30 Mar. (89)	19 16 24	0 Sat	8 Apr. (98)
4889	219-2369	847-4921	139-8101	3 Tues	20 Mar. (79)	1 28 33	2 Mon	9 Apr. (99)
489	270-5472	783-4855	174-4925	2 Mon.	7 Apr. (98)	7 40 42	3 Tues	8 Apr. (99)
489	239-7241	630-7295	50-2154	6 Fri	27 Mar. (86)	13 52 51	4 Wed	8 Apr. (98)
489	208-9009	477-9736	9925-9382	3 Tues	16 Mar. (75)	20 5 0	5 Thur.	8 Apr. (98)
489	260-2113	413-9671	9960-6206	2 Mon	4 Apr. (94)	2 17 9	0 Sat.	9 Apr. (99)
489	229-3880	261-2112	9836-3435	6 Fri	23 Mar. (83)	5 29 17	1 Sun.	8 Apr. (95)
489	201-3026	144-7469	50-6982	4 Wed	13 Mar. (72)	14 41 26	2 Mon	8 Apr. (98)
489	252-6131	80-7303	85-3800	3 Tues	1 Apr. (91)	20 53 35	3 Tues	8 Apr. (98)
489	221-7899	927-9843	9961-1035	0 Sat.	21 Mar. (80)	3 5 44	5 Thur.	9 Apr. (99)
489	193-8033	811-5201	175-4582	4 Wed	10 Mar. (69)	No. of the	6 Fri	8 Apr. (99)
489	245-0148	747-5135	210-1407	4 Wed	THE RESERVE	100 00 0	1	8 Apr. (98)
490	216:1917	591-7578	85-8635	1 Sun	The same of the same of	110 VS 30	A POST NO	8 Apr. (98)
490	1 265-5021	530-7511	120-5400	0 Sat.		20 7000 100	- marine	9 Apr. (99)
490	1234-5983	377:9950	9996-2688	4 Wed.				9 Apr. (99)

				ÇO	NCURREN	T YEAR.		17.61
Kali.	Saka.	Chaitrādi Vikrama.	Meshādi (solar) year in Bengal.	Kollam.	A.D.	JOVIAN SAMVATSARA. Southern system. Northern system.		Intercalated and suppressed (ksh.) lunar months.
1	2	8	3a	4	5	6	7	8
4903 4904 4905	1724 1725 1726	1859 1860 1861	1208 1209 1210	976-77 977-78 978-79	1801-02 1802-03 1803-04	55 Durmati , 56 Dundubhi , 57 Rudhirödgärin	6 Angiras	4 Āskādha ,
4906	1727 1728	1862 1863	1211	979-80 980-81	*1804-05 1805-06	58 Raktāksha . 59 Krōdhana .	9 Yuvan 10 Dhātri	2 Valsākha
4908 4909 4910	1729 1730 1731	1864 1865 1866	1213 1214 1215	981-82 982-83 983-84	1806-07 1807-03 *1808-09	60 Kehaya	11 Iśvara	6 Bhādrapada
4911 4912	1732 1733	1867 1868	1216 1217	984-85 985-86	1809-10 1810-11	3 Śukia 4 Pramôda .	14 Vikrama . 15 Vrisha	4 Ashādha
4913 4914 4915	1734 1735 1736	1869 1870 1871	1218 1219 1220	988-87 987-88 988-89	1811-12 *1812-13 1813-14	5 Prajāpati . 6 Angiras 7 Srīmukha .	16 Chitrabhānu . 17 Subhānu . 18 Tāraņa .	3 Jyčshtha .
4916 4917	1737 1738	1872 1873	1221 1222	989-90 990-91	1814-15 1815-16	8 Bhāva 9 Yuvan	19 Pārthiva	(7 Āśvina (11 Magha (ksh)
4918	1739 1740	1874	1223 1224	991-92 992-93	*1816-17 1817-18	10 Dhātri 11 Išvara	21 Sarvajit . 22 Sarvadhārin .	5 Śrāvaņa .
4920 4921 4922	1741 1742 1743	1876 1877 1878	1225 1226 1227	993-94 994-95 995-96	1818-19 1819-20 *1820-21	12 Bahndhānya . 13 Pramāthin . 14 Vikrama .	23 Virôdhin . 24 Vikrita	
4923 4924	1744 1745	1879 1880	1228 1229	996-97 997-98	1821-22 1822-23	15 Vzisha	25 Khara	3 Jyështha
4925 4925	1746 1747	1881 1882	1230 1231	998-99	1823-24 *1824-25	17 Subhānu . 18 Tāraņa	28 Jaya	2 Vaišakha .
4927	1748	1883	1232	1000-01	1825-26	19 Parthiya	30 Durmukha .	6 Bhādrapada .

LX-Contd.

				COM	IMENCEMENT	OF THE	10.47			
Sc	LAR YEAR.				LUNI-SOLAR		SUNRISE OF		ишен	Kali
Day and month, A.D.	Week- day.	true	me o Mês kris	ha-	Day and month, A.D.	Week- day.	a.	ь.	ć.	year.
13	14		17		19	20	23	24	25	1
9 Apr. (99)	5 Thur.	16	18	37	15 Mar. (74)	1 Sun	9871-9917	225-2391	203-7750	4903
CALLER WATER	6 Fri.	22	30	46	3 Apr. (93)	0 Sat.	9906-6740	161-2327	255-0754	4904
9 Apr. (99) 10 Apr. (100)	1 Sun.	4	42	55	24 Mar. (83)	5 Thur.	121-0289	44.7683	227-0000	4905
9 Apr. (100)	2 Mon.	10	55	4	12 Mar. (72)	2 Mon.	9996-7517	892-0124	196-1769	4906
9 Apr. (99)	3 Tues.	17	7	12	31 Mar. (90)	1 Sun.	31-4341	828-0059	247-4872	4907
9 Apr. (99)	4 Wed-	23	19	21	21 Mar. (80)	6 Fri	245-7889	711-5416	219-4018	4908
10 Apr. (100)	6 Fri	5	31	30	9 Apr. (99)	5 Thur.	280-4713	647-5351	270-7122	4909
9 Apr. (100)	0 Sat	11	43	39	28 Mar. (88)	2 Mon	156-1941	494-7790	239-8891	4910
9 Apr. (99)	1 Sun.	17	55	48	17 Mar. (76)	6 Fri	31-9170	342-0231	209-0658	4911
10 Apr. (100)	3 Tues	0	7	57	4 Apr. (94)	4 Wed.	9727-9674	241-7150	257-6384	4912
10 Apr. (100)	4 Wed.	6	20	5	25 Mar. (84)	2 Mon.	9942-3223	125-2607	229-5530	4913
9 Apr. (100)	5 Thur.	12	32	14	14 Mar. (74)	0 Sat.	156-6770	8-7964	201-4676	4914
9 Apr. (99)	6 Fri.	18	44	23	2 Apr. (92)	6 Fri.	191-3594	944-7898	252-7780	4915
10 Apr. (100)	1 Sun.	0	56	32	22 Mar. (81)	3 Tues.	67-0823	792-0339	221-9548	4916
10 Apr. (100)	2 Mon.	7	8	41	12 Mar. (71)	1 Sun.	281-4370	675-5705	193-8694	4917
9 Apr. (100)	3 Tues.	13	20	50	29 Mar. (89)	6 Fri.	9977-4875	575-2714	242-4421	4918
9 Apr. (99)	4 Wed.	19	32	58	18 Mar. (77)	3 Tues.	9853-2104	422-5154	211-6188	4919
10 Apr. (100)	6 Fri.	1	45	7	6 Apr. (96)	2 Mon.	9887-8928	358-5089	262-9292	4920
10 Apr. (100)		7	57	16	26 Mar. (85)	6 Fri.	9763-6156	205-7530	232-1060	4921
9 Apr. (100)		14	9	25	15 Mar. (75)	4 Wed	9977-9704	89-2887	203-9206	4922
9 Apr. (99)	2 Mon	20	21	34	3 Apr. (93)	3 Tues.	12-6528	25-2822	255-3309	4923
10 Apr. (100)	4 Wed	2		43	24 Mar. (83)	1 Sun.	227-0076	908-8179	227-2456	4924
10 Apr. (100)	5 Thur.	10	45	52	13 Mar. (72)	5 Thur.	102-7304	756-0619	196-4224	4925
9 Apr. (100)	6 Fri.	14	58	0	31 Mar. (91)	4 Wed.	137-4129	692-0554	247-7328	4926
9 Apr. (99)	0 Sat	week.	10	ŋ	20 Mar. (79)	1 Sun.	13:1357	539-2994	216-9096	
The Attractor		-	1,17		en tames (117)	Linding	10.1007	DOC NOOT		

TABLE

				CON	CURRENT	YEAR.		10-10
		ikrama	lar) year		, -	Joylan S	MVATSARA.	Intercalated and suppressed (ksh.) lunar months.
Kali.	Saka.	Chaitrādi Vikrama	Mēshādi (solar) in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	Montage
1	2	3	3a	4	5	6	7	8
4928	1749	1884	1233	1001-02	1826-27	20 Vyaya	31 Hēmalamba .	
4929	1750	1885	1234	1002-03	1827-28	21 Sarvajit .	32 Vilamba .	946
4930	1751	1886	1235	1003-04	*1828-29	22 Sarvadhārin .	33 Vikārin	4 Åshādha .
4931	1752	1887	1236	1004-05	1829-30	23 Virôdhin .	34 Särvarin .	***
4932	1753	1888	1237	1005-06	1830-31	24 Vikrita	35 Plava	
4933	1754	1889	1238	1006-07	1831-32	25 Khara	36 Subhakrit .	3 Jyështha .
4934	1755	1890	1239	1007-08	*1832-33	26 Nandana	37 Sõbhana .	-
4935	1756	1891	1240	1008-09	1833-34	27 Vijaya	38 Krödhin .	7 Asvina
4936	1757	1892	1241	1009-10	1834-35	28 Jaya	30 Višvāvasu .	14
4937	1758	1893	1242	1010-11	1835-36	29 Manmatha .	40 Parābhaya .	340
4938	1759	1894	1243	1011-12	*1836-37	30 Durmukha .	41 Plavanga .	5 Srāvana .
4939	1760	1895	1944	1012-13	1837-38	31 Hêmalamba .	42 Kilaka	
4940	1761	1896	1245	1013-14	1838-39	32 Vilamba .	43 Saumya .	. 2017
4941	1762	1897	1246	1014-15	1839-40	33 Vikārin	44 Sådhāraņa .	3 Jyështha .
4942	1763	1898	1247	1015-16	*1840-41	34 Sárvarin .	45 Virðdhakrit .	1944
4943	1764	1899	1248	1016-17	1841-42	35 Plava	46 Paridhāvin† .	***
4944	1765	1900	1249	1017-18	1842-43	36 Subhakrit .	48 Ananda	2 Vaišākha .
4945	1766	1901	1250	1018-19	1843-44	37 Sôbhana .	49 Rākshasa .	3,600
4946	1767	1902	1251	1019-20	*1844-45	38 Krödhin .	50 Anala	6 Bhādrapada .
4947	1768	1903	1252	1020-21	1845-46	39 Višvāvasu .	51 Pingala . ,	
4948	1769	1904	1253	1021-22	1846-47	40 Parābhava	52 Kälayukta .	***
4949	1770	1905	1254	1022-23	1847-48	41 Plavanga .	53 Siddhärthin .	4 Āshāḍhn .
4950	3771	1906	1255	1023-24	*1848-49	42 Kilaka	54 Raudra	244
4951	1772	1907	1258	1024-25	1849-50	43 Saumya .	55 Durmati .	=404
4952	1773	1908	1257	1025-26	1850-51	44 Sādhāraņa ,	56 Dundubki .	3 Jyöshtha .
-	-		_	- 47 D-				

^{7 47} Pramadin was suppressed in the north.

LX-Contd.

		CO	MMENCEMENT	OF THE				
So	DLAB YEAR.		LUNI-SOLAR YEAR (MEAN SUNRISE OF DAY ON WHICH CHAITRA SUKLA 1 ENDS).					
Day and month, A.D.	Week- day.	Time of true Mesha- samkranti-	Day and month, A.D.	Week- day.	a.	ь.	c.	
13	14	17	19	20	23	24	25	1
10.1 (100)	a W	3 22 18	8 Apr. (98)	0 Sat.	47-8181	475-2929	268-2199	4928
10 Apr. (100)	2 Mon.	15070 196	28 Mar. (87)	4 Wed	9923-5409	322-5370	237-3968	4929
10 Apr. (100)	3 Tues	9 34 27	28 Mar. (87)	1 Sun.	9799-2638	169-7810	206-5736	4936
9 Apr. (100)	5 Thur.	21 58 45	4 Apr. (94)	0 Sat.	9833.9461	105-7745	257-8840	493
9 Apr. (99) 10 Apr. (100)	0 Sat.	4 10 53	25 Mar. (84)	5 Thur.	48-3010	989-3102	229-7985	493
10 Apr. (100)	1 Sun.	10 23 2	15 Mar. (74)	3 Tues.	262-6558	872-8459	201-7131	493
9 Apr. (100)	2 Mon.	16 35 11	2 Apr. (93)	2 Mon	297-3382	808-8394	253-0236	493
9 Apr. (99)	3 Tues.	22 47 20	22 Mar. (81)	6 Fri.	173-0610	656-0834	222-2004	493
10 Apr. (100)		4 59 29	10 Apr. (100)	5 Thur.	207-7434	592-0769	273-6107	493
10 Apr. (100)		11 11 38	30 Mar. (89)	2 Mon	83-4663	439-3209	242-6876	493
9 Apr. (100)	100000	17 23 46	18 Mar. (78)	6 Fri	9959-1892	286-5650	211-8644	493
9 Apr. (99)	1 Sun.	23 35 55	9 Apr. (96)	5 Thur.	9993-8715	222-5584	263-1748	493
10 Apr. (100)	Participation of	5 48 4	26 Mar. (85)	2 Mon	9869-5944	69:8025	232:3516	494
10 Apr. (100)	and the same of th	12 0 13	16 Mar. (75)	0 Sat	83-9492	953-3382	204-2661	494
9 Apr. (100)		18 12 22	3 Apr. (94)	6 Fri.	118-6315	889-3316	255-5766	494
10 Apr. (100)	1,000	0 24 31	23 Mar. (82)	3 Tues	9994-3544	736-5758	224-7533	494
10 Apr. (100)		6 36 39	13 Mar. (72)	1 Sun	208-7092	620-1114	196-6680	494
10 Apr. (100)		12 48 48	31 Mar. (90)	6 Fri	9904-7597	519-8132	245-2405	49
9 Apr. (100	3 Tues	19 0 57	19 Mar. (79)	3 Tues	9770-4824	366-0573	214-4173	49
10 Apr. (100	5 Thur.	1 13 6	7 Apr. (97)	2 Mon	9815-1649	303-0508	265-7278	49
10 Apr. (100	6 Fri	7 25 15	28 Mar. (87)	0 Sat	29-5197	186-5855	237-6424	454
10 Apr. (100	0 Sat.	13 37 24	17 Mar. (76)	4 Wed	9905-2425	33-8305	206-8191	494
9 Apr. (100	1 Sun	19 49 33	4 Apr. (95)	3 Tues	9939-9249	969-8 140	257-1295	490
10 Apr. (100	3 Tues	2 1 41	25 Mar. (84)	1 Sun	154-2798	853-3597	230-0441	490
10 Apr. (100	4 Wed	8 13 50	14 Mar. (73)	5 Thur.	30-0026	700-6037	199-2210	490

TABLE

	3			CONCU	JRRENT 1	EAR.		H to the same
20.00		ikrama	(solar) year			JOVIAN S	AMVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali.	Saka.	Chaitradi Vikrama.	Meshādi (so in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	months.
1	2	3	3u	4	5	6	7	8
	-				2 3 - 12			
4953	1774	1909	1258	1026-27	1851-52	45 Virôdhakrit .	57 Rudhirödgårin	200
4954	1775	1910	1250	1027-28	*1852-53	46 Paridhāvin .	58 Raktākshu .	7 Aśvina .
4955	1776	1911	1260	1028-29	1853-54	47 Pramādin .	59 Kridhana .	
4956.	1777	1912	1261	1029-30	1854-55	48 Ānanda .	60 Kshaya	
4957	1778	1913	1262	1030-31	1855-56	49 Rākshasa .	1 Prabhava .	5 Srāvaņa .
4958	1779	1914	1263	1031-32	*1856-57	50 Anala	2 Vibhava	***
4959	1780	1915	1264	1032-33	1857-58	51 Pingala .	3 Sukla	***
4960	1781	1916	1265	1033-34	1858-59	\$2 Kālayukta .	4 Pramöda .	3 Jyështha .
4961	1782	1917	1266	1034-35	1859-60	53 Siddhärthin ,	5 Prajāpati .	
4962	1783	1918	1267	1035-36	*1860-61	54 Raudra ,	6 Angiras .	772
4963	1784	1919	1268	1036-37	1861-62	55 Durmati .	7 Šrīmukha .	2 Vaišakha .
4964	1785	1920	1269	1037-38	1862-63	56 Dundubhi .	8 Bhāva	17/34
4965	1786	1921	1270	1038-39	1863-64	57 Rudhirödgárin	9 Yuvan	6 Bhadrapada
4966	1787	1922	1271	1039-40	*1864-65	58 Raktāksha .	10 Dhātri	100
4967	1788	1923	1272	1040-41	1865-66	59 Krödhana .	11 Iśvara .	
4968	1789	1924	1273	1041-42	1866-67	60 Kshaya .	12 Bahudhānya ,	4 Ashādha .
4969	1790	1925	1274	1042-43	1867-68	1 Prabhava .	13 Pramāthin .	* ***
4970	1791	1926	1275	1043-44	*1868-69	2 Vibhava .	14 Vikrama .	70
4971	1792	1927	1276	1044-45	1869-70	3 Šukla	15 Vrisha	3 Jyōshtha
4972	1793	1928	1277	1045-46	1870-71	4 Pramôda ,	16 Chitrabhanu .	
4973	1794	1929	1278	1046-47	1871-72	5 Prajāpati .	17 Subhānu ,	7 Aávina .
4974	1795	1930	1279	1047-48	*1872-73	6 Angiraa .	18 Tāraņa	
4975	1796	1931	1280	1048-49	1873-74	7 Šrímukha .	19 Pārthiya ,	
4976	1797	1932	1281	1049-50	1974-75	S Bhāva	20 Vyaya	5 Śrāvaņa .
4977	1798	1933	1282	1050-51	1875-76	9 Yuyan	21 Sarvajit. ,	
		_		_				

LX-Contd.

8	OLAR YEAR		LUNI-SOLAR		an sunrise Sukla 1 er		wnich	Kai
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	tt+:	ħ.	c.	
13	14	17	19	20	23	24	25	1
	>=\230	н. м. s.		2.000	01.0010	636-5972	250-5313	495
10 Apr. (100)	5 Thur,	14 25 59	2 Apr. (92)	4 Wed	04-6849	ATTACABLE .	219-7081	495
9 Apr. (100)	6 Fri.	20 38 8	21 Mar. (81)	1 Sun. ,	9940-4078	483-8413	1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	498
10 Apr. (100)	1 Sun	2 50 17	9 Apr. (09)	0 Sat.	9975-0902	419-8348	271:0185 210:1954	490
10 Apr. (100)	2 Mon	9 2 26	29 Mar. (88)	4 Wed.	9850-8130	267-0788	212-1099	490
10 Apr. (100)	3 Tues.	15 13 34	19 Mar. (78)	2 Mon.	65-1679	150-6145		
9 Apr. (100)	4 Wed.	21 26 43	6 Apr. (97)	I Sun	99-8503	86-6079	263-4203	49
0 Apr. (100)	6 Fri	3 38 52	26 Mar. (85)	5 Thur.	9975-5732	933-8520	232-5971	49
10 Apr. (100)	0 Sat	9 51 1	16 Mar. (75)	3 Tues.	189-9279	817/3877	204-5117	49
10 Apr. (100)	1 Sun	16 3 10	4 Apr. (94)	2 Mon	224-6103	753-3812	255-8221	49
9 Apr. (100)	2 Mon	22 15 19	23 Mar. (83)	6 Fri	100-3332	600-6253	224-9988	49
10 Apr. (100)	4 Wed.	4 27 27	12 Mar. (71)	3 Tues.	9976-0559	447-8693	194-1757	49
10 Apr. (100)	5 Thur.	10 39 36	31 Mar. (90)	2 Mon. :	10:7384	383-8627	245-4861	49
10 Apr. (100)	6 Fri	16 51 45	20 Mar. (79)	6 Fri	9886-4612	231-1068	214-6629	49
9 Apr. (100)	0 Sat. ,	23 3 54	7 Apr. (98)	5 Thur.	9921-1437	167-1003	265-9733	49
10 Apr. (100)	2 Mon	5 16 3	28 Mar. (87)	3 Tues.	135-4984	50-6360	237-8879	49
10 Apr. (100)	3 Tues.	14 28 12	17 Mar. (76)	0 Sat. :	11-2213	898-8801	207-0647	49
10 Apr. (100)	4 Wed.	17 40 20	5 Apr. (95)	6 Fri	45:9037	833-8735	258-3751	49
9 Apr. (190)	5 Thur.	23 52 29	25 Mar. (85)	4 Wed.	260-2585	717-4093	230-2896	49
10 Apr. (100)	0 Sat.	6 4 38	14 Mar. (73)	1 Sun.	135-9813	561-6532	199-4665	49
10 Apr. (100)	1 Sun.	12 16 47	2 Apr. (92)	0 Sat	170-6639	500-6467	250-7769	49
10 Apr. (100)	2 Mon	18 28 56	22 Mar. (81)	4 Wed.	46-3866	347-8908	219-9537	49
10 Apr. (101)	4 Wed.	0 41 5	8 Apr. (99)	2 Mon	9742-4370	247-5926	268-5262	49
(0 Apr (100)	5 Thur.	6 53 14	29 Mar. (88)	0 Sat.	9956-7918	131-1283	240-4409	49
10 Apr. (100)	6 Fri	13 5 22	19 Mar. (78)	5 Thur.	171-1467	14-6640	212-3555	49
10 Apr. (100)	0 Sat.	19 17 31	7 Apr. (97)	4 Wed.	205-8290	950-6575	263-6659	49

TABLE

-	_		_	CONCE	TRRENT Y	TEAR		
				COACC		D. Carlo		
		krama.	ar) year			Jovian Sa	MVATSARA.	Intercalated and suppressed (ksh.) lunar
Kali,	Saka.	Chaitradi Vikrama.	Meshadi (solar) year in Bengal.	Kollam.	Λ. D.	Southern system.	Northern system.	months.
1	2	3	30	4	- 5	6	7	8
3500	244 - 10		Table 1		HAVAGE BE	NA TANGETA	2000	
4978	1799	1934	1283	1051-52	*1876-77	10 Dhātri	22 Sarvadhārin .	
4979	1800	1935	1284	1052-53	1877-78	11 Iśvara	23 Virôdhin .	3 Jyështha .
4980	1801	1936	1285	1053-54	1878-79	12 Bahudhanya .	24 Vikrita	
4981	1802	1937	1286	1054-55	1879.80	13 Pramathin .	25 Khara	444
4982	1803	1938	1287	1055-56	*1889-81	14 Vikrama	26 Nandana .	I Chaitra
1983	1804	1939	1288	1056-57	1881-82	15 Vrisha	27 Vijaya	300
4984	1805	1940	1289	1057-58	1882-83	16 Chitrabhanu ~	28 Jāya	5 Srāvaņa .
4985	1806	1941	1290	1058-59	1883-84	17 Subhānu .	29 Manmatha .	***
4986	1807	1942	1291	1020-00	*1884-85	18 Tāraņa	30 Durmukha .	
4977	1808	1943	1292	1060-61	1885-86	19 Pārthiva .	31 Hēmalamba .	4 Āshādha .
4988	1800	1944	1293	1061-62	1886-87	20 Vyaya	32 Vilamba .	322
4989	1810	1945	1294	1062-63	1887-88	21 Sarvajit .	33 Vikārin ,	`
- 4990	1811	1945	1295	1063-64	*1888-89	22 Sarvadhārin .	34 Särvarin .	2 Valiākha .
4991	1812	1947	1296	1064-65	1889-90	23 Virödhin .	35 Plays	
4992	1813	1948	1297	1065-66	1890-91	24 Vikrita	36 Subhakrit .	7 Asvina .
4993	1814	1949	1298	1066:67	1891-92	25 Khara	37 Šõbhana .	
4994	1815	1950	1299	1067-68	*1892-93	26 Nandana .	38 Krödhin	
4995	1816	1951	1300	1068-69	1893-94	27 Vijaya	39 Višvāvasu .	5 Sravāņa .
4996	1817	1952	1301	1069-70	1894-95	28 Jaya	40 Parábhava .	
4997	1818	1953	1302	1070-71	1895-96	29 Manmatha .	41 Playanga .	444
4998	1819	1954	1303	1071-72	*1896-97	30 Durmukha .	42 Kilaka	3 Jyéslitha .
4999	1820	1955	1304	1072-73	1897-98	31 Hemalamba .	43 Saumya .	
5000	1821	1956	1305	1073-74	1898-99	32 Vilamba .	44 Sådhärnna .	
5001	1822	1957	1306	1074-75	1899-1900	33 Vikārin .	45 Virôdhakrit .	1 Chaitra
5002	1823	1958	1307	1075-76	1900-01+	34 Śárvacm .	i6 Paridhāvin	
	-		-	-	-	D. 1900 was not a 1		1

* The year A. D. 1900 was not a Leap-year.

LX-Contd.

NOSI 10						_		_
		COM	MENCEMENT	OF THE				
S	DLAB YEAR.		LUNE-SOLAR	YEAR (MEAN CHAITHA S	SUNRISE OF	F DAY ON W		Kali year.
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	et.	ъ.	r.	
13.	14	17	19	20	23	24	25	1
10 Apr. (101)	2 Mon	1 29 40	26 Mar. (86)	1 Sun	81-5519	797-9015	232-8426	4078
10 Apr. (100)	3 Tues.	7 41 49	16 Mar. (75)	6 Fri	295-0067	681-4372	205-7472	4979
10 Apr. (100)	4 Wed.	13 53 58	3 Apr. (93)	4 Wed	9991-9571	581-1391	253-3299	4980
10 Apr. (100)	5 Thur.	20 6 7	23 Mar. (82)	1 Sun.	9867-0799	428-3831	222-5067	4981
10 Apr. (101)	0 Sat. ,	2 18 15	11 Mar. (7))	5 Thur	9743-4027	285-6272	191-0834	4982
10 Apr. (100)	1 Sun.	8 30 24	30 Mar. (89)	4 Wed.	9978-0852	211-6206	242-9939	4983
10 Apr. (100)	2 Mon	14 42 33	20 Mar. (79)	2 Mon	9992-4400	95-1563	214-9085	4984
10 Apr. (100)	3 Tues.	20 54 42	8 Apr. (98)	1 Sun	27-1224	31-1498	266-2189	4985
10 Apr. (101)	5 Thur.	3 6 51	28 Mar. (88)	6 Fri	241-4772	914 6855	238:1334	4986
10 Apr. (100)	6 Fri.	9 19 0	17 Mar. (76)	3 Tues.	115-2001	761-9296	207:3102	4987
10 Apr. (100)	0 Sat	15 30 8	5 Apr. (95)	2 Mon	151-8824	697-9230	258-6207	4988
10 Apr. (100)	1 Sun	21 42 17	25 Mar. (84)	6 Fri	27-5053	545-1671	227-7974	4989
10 Apr. (101)	3 Tues.	3 54 26	13 Mar. (73)	3 Tues	0903-3281	392-4111	196-9742	4990
10 Apr. (100)	4 Wed.	10 6 35	1 Apr. (91)	2 Mon	9938-0106	328-4046	248-2846	4901
10 Apr. (100)	5 Thur.	16 19 44	21 Mar. (80)	6 Fri	9813-7333	175-6487	218-4615	4092
10 Apr. (100)	6 Fri.	22 31 53	9 Apr. (99)	5 Thur.	9848-4158	111-6421	268:7718	4993
10 Apr. (101)	1 Sun.	4 44 1	29 Mar. (89)	3 Tues	62:7706	995-1778	210-6864	4994
10 Apr. (100)	2 Mon	10 56 10	19 Mar. (78)	1 Sun	277-1254	878-7136	212-6010	4995
10 Apr. (100)	3 Tues.	17 18 19	7 Apr. (97)	0 Sat	311-8078	814-7070	263-9115	4998
10 Apr. (100)	4 Wed.	23 20 28	27 Mar. (86)	4 Wed	187-5307	661-9510	233-0882	4997
10 Apr. (101)		5 32 37	15 Mar. (75)	1 Sun	63-2537	509-1951	202 2649	4998
10 Apr. (100)	9 Sat	11 44 46	3 Apr. (93)	0 Sat	97-9358	445-1880	253-5754	4299
10 Apr. (100)	1	17 56 55	23 Mar. (82)	4 Wed.	9973-6587	292-4327	2.23-7522	5000
11 Apr. (101)	100000000000000000000000000000000000000	0 9 3	12 Mar. (71)	1 Sun	9849-3815	139-6767	101-0290	5001
11 Apr. (101)		6 21 12	31 Mar. (80)	0 Sat.	9884-0640	75-6701	211-1589	5002
				1	1		-	-

THE FIRST ARYA-SIDDHANTA

THE "ARVABHATIVA," OR "LAGHE ABYA-SIDDHANTA", OF ARVABHATA, A.D. 499.

WORKING TABLES FOR CALCULATION BY THE TRUE, OR APPARENT, MOTIONS OF SEN AND MOON.

(Previously published in Epigraphia Indica, Vol. XVI, pp. 100 to 221.)

286. My last article provided working Tables for verifying dates according to the requirements of the Siddhānta-Sirōmani on the basis of the "true" or apparent motions of the sun and moon; the present one provides similar Tables for the First Ārya-Siddhānta. These Tables are framed so as to correspond to those published in the Indian Calendar, which, for luni-solar computation, generally followed the Sūrya-Siddhānta.

No pains have been spared to render the information that follows scientifically correct. But we do not yet know how far, or in what tracts or in what periods, the by-gone framers of local almanacs adhered strictly to rule; or used other sets of Tables for their guidance; or worked by whole numbers alone, discarding fractions; or made their calculations in true or apparent time instead of, as in these Tables, in mean or clock time. We have, moreover, as yet no definite information as to how late a date calculations were made by the sun's and moon's mean movements as opposed to their true or apparent movements; nor do we know with any certainty the boundaries of the tracts within which the different rules governing the civil beginnings of solar months were athered to (Ind. Calcular, § 28). Such matters are problems of the future, only to be solved after protracted enquiry and investigation. Dewan Bahadur L. D. Swamikannu Pillai gives it as his opinion (Indian Chronology, p. 70, § 169) that, while the Ārya-Siddhānta was used for solar computation, the authors of South-Indian pañchāngs carried out their lunar calculations for the tithi, nakshatra, etc., by Sūrya-Siddhānta rule.

287. It is easy to understand how dates of documents, the details of which dates depend on the position of sun and moon, must often differ when calculated by different authorities. Taking only the Arya- and Serya-Siddhāatas into consideration, it will be seen by Table A at the end of the text (p. 248 below) that in 142 years out of the 1900 with which the main Table LXI is concerned there were radical differences. In 95 of these years the samvatsara cycle-name of the whole year was different; in 3) years the intercalation and suppression of lunar months were different; and the day on which the luni-solar year began was different in 21 years.

Consider the year A.D. 1418-19, for instance, or Saka 1340 expired. This year was, according to the northern system of nomenclature, called "Viśvāvasu" by the followers of the Āryabut "Krodhin" by those of the Sārya-Siddhānta. In the same year there was, by the Ārya-Siddhānta, a suppression of the lunar month Māgha and an intercalation of Phālguna, while by the Sārya-Siddhānta there was none such; so that a date correctly expressed in Ārya-Siddhānta reckoning in that year would seem entirely inaccurate when tested by Sārya-Siddhānta Tables.

ARBANGEMENTS OF THE TABLES.

288. The principal working Tables for computation of dates expressed in First Arya-Siddhanta reckoning are Tables LXI to LXXI below. Tables LXI to LXX are disposed so us to correspond in rotation with Tables I to X of the "Indian Calendar," and have been frame 1 i.: similar manner. This arrangement is adopted for the convenience of those who, during the last twenty-five years, have become accustomed to the processes of that publication.

Table LXI corresponds to Table I, "Indian Calendar."1

- " LXII " " " II, Part II, "Indian Calendar."
- ., LXIII-A ,, ., . III, Part I, ., .,
 - LXIII-B " " " Part II, "

[This Table is framed in a similar manner to Table XVIII-A, "Indian Chronography," which it is intended to supersede.]

Table LXIV corresponds to Table IV, "Indian Calendar."

- , LXV ,, ,, ,, V, ,, ,,
- " LXVI " " " VI, "
- " LXVII " " " VII, "

[Tables LXVI-A, LXVII-A give closer details than do Tables LXVI, LXVII, and are to be used for very accurate calculation in doubtful cases.]

Table LXVIII corresponds to Table VIII, "Indian Calendar."

Table LXXI is taken from Tables XLI-A and B, "Indian Chronography" (pp. 176, 177). It enables the week-day corresponding to the Hindu date under examination to be determined according to European computation.

Then follow three Tables by which the details given in the main Table LXI have been calculated. These are Table LXXII, which fixes the values of "a", "b", "e" (mean distance of moon from sun, moon's mean anom., sun's mean anom.) at the beginning of the centuries concerned; Table LXXIII which gives the same information for the beginnings of odd years of centuries; and Table LXXIV, which provides, in combination with Tables LXXII and LXXIII, an easy method of arriving at the values of "a", "b", "c", or the mean positions of sun and moon at mean sunrise on the first civil day of each luni-solar year. The system of work is the same as that of Prof. Jacobi.

Fall particulars of the moon's equation of the centre will be found in the last Table LXXV,

ELEMENTS OF THE FIRST ARYA-SIDDHANTA

289. This work was composed by Āryabhaṭa at Kusumapura in A.D. 499, or the year 3600 (expired) of the Kaliyuga. About A.D. 638 a treatise called the *Dhi-vriddhida* was written by Lalla, who introduced a bija, or correction, affecting three of the principal elements of the Siddhānta. He seems to have reduced by about 10' in a century the moon's increase in her mean distance from mean sun (our "a"); and he added about 36' in a century to the moon's mean anomaly (our "b"); his third correction had reference to the planet Jupiter, with which at present we are not concerned. He did not make any change in the sun's mean anomaly (our "c"). The Karaṣa-prakāṣa, of date A.D. 1092, an authority largely used in Southern India, is based on Āryabhaṭa's Siddhānta as amended by Lalla.

Because of this intentional correspondence the years of Indian eras quoted in cols. 1 to 4 are concurrent years, as in the "Indian Calendar."

The Tables given below, which deal with the period A.D. 899-900 (K.Y. 4000 expired)
A.D. 1900-01 (K.Y. 5001 expired), include Lalla's corrections.

- 290. (i) The length of the sidereal solar year, according to the Arya-Siddhānta, is 365:2586805 days, or 3654 6h 12m 30s.
- (ii) Sines of angles are the same as those of the Sārya-Siddhānta, based on a radius of (sin. 90°=) 3438′. The 24 base sines and equations of the sun's centre are given in my Table XLVII above. Those of the moon's centra in Table LXXV below.
 - (iii) For the sun's mean motion per day, hour, minute and second, see Table XLIV above.
- (iv) The circumference of the sun's epicycle is 13° 30′; that of the moon 31° 30′. There is no contraction of the epicycle in either case. Jacobi, Epig. Ind., Vol. I, p. 441.)
- (v) There is no shift of the sun's apsis. The longitude of his perigee-point is always 258°; apogee 78°. In ten-thousandths of the circle the perigee is 7166.6.
- (vi) The sun's equation of the centre at the moment of true Mesha-sankranti in every year, i.e. the moment when the true sun reaches celestial longitude 0°, is, according to Dr. Schram's calculation, 2° 6′ 57′·323494885, or, in ten-thousandths of circle, 58′·775644170¹; the sun's mean longitude at the same moment being 357° 53′ 2° 676505115, or, in ten-thousandths of circle, 9941°224355830; and his mean anomaly 99° 53′ 2° 676505115, or, in ten-thousandths of circle, 2774′557689163.
- (vii) For the sun's mean and true long, for every consecutive 24-hour period measured from the same moment (true Mēsha-samkrānti) readers are referred to Table XLVIII-A above.
- (viii) The sun's equation of the centre (see above, Table XLVII) is obtained by the formula $\frac{3}{80}$ sin. α . For sin. eqn. = $\frac{\text{minutes in epicycle}}{\text{minutes in orbit}} \times \sin \alpha$, where α is the sun's mean anom.; and here the minutes in the epicycle are 810′, the circumference being 13° 30′ and those of the orbit are 21600′ (360°). Hence sin. eqn. = $\frac{810}{21600} \sin \alpha$, or $\frac{3}{80} \sin \alpha$. In all equations of the sun's centre, the angle being less than 3° 45′, the eqn. is the same as the sin. eqn. (below, § 294 ii).
- (ix) The moon's equation of the centre (below, Table LXXV) is obtained by a similar proportion. The circumference of the epicycle being 31° 30' or 1890', the working formula is sin eqn. = $\frac{1890'}{21000}$ sin. α , or $\frac{7}{80}$ sin. α . In this case, however, for all angles in the quadrant lying between 3° 45' and 7° 30', the equation does not equal the sin. eqn. The process for obtaining the former from the latter is fully set forth in § 294 below.
- (x) The sodhya, or time-equivalent of the equation of the centre—in other words the interval of time between the moments of the true sun reaching long. 0° (true Mēsha-samkrānti) and mean sun reaching the same point (mean Mēsha-samkrānti)—is calculated by Dr. Schram as 2·146831 days, or 2^d 3^h 31^m 26·1984. This differs a little from the accepted Hindu valuation 2^d 3^h 32^m 30^s. As the latter is believed to have been always taken in India as the sodhya value according to the First Ārya-Siddhānta, it is the value adopted in the present work.

M. de Ries has worked this out quite independently, and his calculation agrees with that of Dr. Schram as for as the 6th decimal.

Above, p. 54, §§ 251 252; Jacobi, Epig. Ind., Vol. 1, p. 441.

- (xi) According to this Siddhānta the Kaliyuga era began, or in other words K.Y. 0 expired or K.Y. 1 current began, with a conjunction at celestial longitude 0° of mean moon, mean sun and the principal planets at the moment of mean sunrise at Lanka on Friday, 18 February B.C. 3102. That was the moment of mean Mēsha-samkrānti in that year. It was 0^h 0^m Lanka time on that morning.
- (xii) At that moment, and the same in every succeeding year, the sun's apsis (perigee) being at long. 258°, his mean anom. (our "e") is (360°-258°) 102°, or, in thousandths of circle (our notation), 283°3.
 - (xiii) The moon's mean anom. (our "b") was 90°, or, in thousandths of circle, 250.
- (xiv) Since mean moon and mean sun were at that moment in conjunction, the distance between them was mil. This is represented in ten-thousandths of circle by the completed circle 10,000. From this, in order to arrive at the exact value of our "a," must be deducted the sum of the greatest equations of 《 and ⊙. These are deducted for convenience of calculation, the respective quantities being added to "cqn. b" and "eqn. c," so that the working values may always be additive. The sum of these greatest equations I estimate at 199·115048361, in ten-thousandths of circle (below, § 296), 10,000 less this quantity = 9800·884951639. Hence at the beginning of the Kaliyuga—

 $a = 9800 \cdot 884951639$ b = 250 $c = 283 \cdot 3$

CONSTRUCTION OF THE TABLES.

291. No special remarks are necessary except with reference to Tables LXIII-B (lengths of solar months), LXVI-A and LXVII-A (Detailed "Equation b" and "Equation σ"), LXVIII (Indices of tithis, etc.), and the three Tables LXXII, LXXIII, LXIV. The remainder are only duplicates of the similar Tables in the "Indian Calendar." (See "Arrangement of Tables," above, § 288.)

Table LXIII-B .- Lengths of the true solar months.

292. M. Louis de Ries has been repeatedly quoted in these pages as a most careful calculator. Several years ago he kindly worked out for me an estimate of the lengths of the true solar months according to the First Ārya-Siddhānta, but did not inform me of the process by which he obtained his results. An entirely independent calculation has now been carried out, based on my own Table of the sun's true longitude for each 24-hour period of the solar year (above, Table XLVIII-A)—a Table, let it be understood, prepared some years subsequent to M. de Ries' communication and to which he has never had access.\(^1\) Comparison of results proves the accuracy of M. de Ries' figures, and these have been adopted without alteration in my Table. The complete agreement of our respective fixtures is really remarkable.

For example, M. de Ries found that the true sun, according to Ārvabhata as corrected by Lalla, reaches 180° of celestial long., the moment of the Tulä-samkranti, 186° 21° 37° 82 after the moment of true Mēsha-samkranti, the astronomical beginning of the true solar year.

My cwn work for solution of this problem is as follows:—It will be seen from Table XLVIII-A above that on that 186th day, i.e. after 186 periods of 24 hours each from the moment of true Mēsha-samkrānti, the true sun has to travel (180°-179° 6′ 55°21=) 53′ 4°79 before reaching the Tulā-samkrānti point, 180°. Calculating by his actual velocity on Day 126

¹ It was published during the war.

(Table XLIX), the time required for him to accomplish this journey (using his true, not mean, velocity in minutes and seconds as well as in hours¹) is found to be 21^h 21^m 37*82,—precisely M. de Ries' fixture. All the details given by M. de Ries have been similarly examined, and found correct.

Dewan Bahadur L. D. Swamikannu Pillai's estimate of the lengths of these months (Indian Chronology, Table II) differs somewhat from ours, the sun according to him arriving at each satisficanti always a little later than it does by our determination. The greatest difference between us is at the Tula-satisficanti, which his Table shews to occur 3^m 34ⁿ18 later than the time yielded by our Table. Adding together the lengths of the twelve solar months as given by him, the length of the Årya-Siddhānta year appears to be 365^d 6^h 12^m 37^s, or 7 seconds longer than its accepted length.

Tables LXVIA, LXVIIA .- " Equation b" and " Equation c."

293. In order to obtain the correct working equations of 《 and ⊙ from their respective mean anomalies it is only necessary in ordinary cases to use Tables LXVI, LXVII, which give the values of "eqn. b" and "eqn. c" roughly in whole numbers. For very close calculation, however, Tables LXVI-A and LXVII-A are provided, which give the exact equations with four decimal places for a large number of anomaly angles. For an explanation as to the construction of these Tables see § 275 above.

294. It is advisable to explain clearly my reason for differing from Prof. Jacobi as to the amount of the greatest equation of the moon, which he values, in ten-thousandths of the circle, at 1390 as against my 1394.

"Equ. b." The general formula (§ 290, ix) for the equation of the moon's centre is, z being the angle of mean anom., sin. eqn. = $\frac{7}{80}$ sin. a. To obtain the equation from the sine of the equation-angle the proportion eqn.; sin. eqn. :: diff. in angle: diff. in sine is used. The Hindu astronomers always worked by sections of anomaly-are, each measuring 3° 45', or 225'. Reference to the Equation-Table LXXV will shew that in the case of the first group, anom. 0° to 3° 45', the diff. in anom. is 225' and the diff. in sine is also 225'. Hence, in the case of all anom. angles between 0° and 3° 45', eqn. =sin. eqn. But in the case of all anom. angles between 3° 45' and 7° 30'—and no equation angle of the moon's anom. exceeds the latter quantity—the diff. in angle is 225' and the diff. in sine is 224'; so that the formula to be used for all angles coming into this second group is eqn. $=\frac{225'}{224'}$ sin. eqn. This applies only to the excess in the angle over 3° 45'. The working rule, therefore, for finding the equation of angles lying between 3° 45' and 7° 30' is as follows:—

With the formula $\frac{7}{80}$ sin. a, find the sin. eqn. From the sin. eqn. deduct 225'. Multiply the remainder by 225' and divide the product by 224'. Add 225' to the result.

Or, a little more simply,—From the sin. eqn. deduct 225'. Divide the remainder by 224'. Add the result + 225' to the sin. eqn.

For an example let us suppose that it is required to find the moon's eqn. for anom. 67° 30′. Sin. 67° 30′ = $(Table\ LXXV)$ 3177′. $\frac{7 \times 3177'}{80} = 277' \cdot 9875$, or 4° 37′ 59° 25, an angle

¹ That is to say, dividing up the velocity per hour (Table XLIX) on that day into minutes and seconds, and not using Table L—which only states the sun's mean velocity.

between 3° 45′ and 7° 30′. 277'.9875 - 225' = 52'.9875, and this divided by 224' = 0'.236551. 52'.9875 + 0'.236551 + 225' = 278'.224051, or 4° 38′ 13".44306. This is the correct "equation b" for the given anom. It is stated by Prof. Jacobi (*Epig. Ind. Vol. I, Table XXIVA*) shortly as 4° 38′ 13".

Turning now to the equation of 90°, the greatest equation (, and working in the same way, sin. $90^{\circ}=3438'$. $\frac{7\times3438'}{80}=300'\cdot825$. This less $225'=75'\cdot825$, and this divided by $224'=0'\cdot338504464$. $75'\cdot825+0'\cdot338504464+225'=301'\cdot163504464$, or 5° 1' 9'·810268, which is the exact equation required. In ten-thousandths of circle this=139·427548361.

295. "Eqn. c." [Working similarly for the greatest equation ⊙ or the equation of sun's anom. 90°.] The formula for finding sin. eqn. in this case is (see § 290, viii) 3/80 sin. a Sin. 90°

=3438′. Sin. eqn. = $\frac{3 \times 3438'}{80}$ =128′·925, or 2°8′ 55″·5, or, in ten-thousandths of circle, 59·6875; and, because this angle is one in the first group, being less than 3° 45′, the eqn. =sin. eqn. Hence Θ 's eqn. 90°= 59·6875. This is the same as Prof. Jacobi's valuation, which he gives in degrees as 2°8′ 56″ and in circle measurement (my notation) as 59·7.

296. Greatest equations (and ⊙. My estimate, therefore, of the sum of the greatest equations (and ⊙ is—

€ 139.427548361
 ⊙ 59.687500000

TOTAL . 199-115048361

The difference between us causes a slight difference in our respective Tables of equation.1

Table LXVIII.—Indices of tithis, etc.

296-A. In this Table the indices are given with decimal points for guidance in close cases. Otherwise they correspond exactly to those in Table VIII, "Indian Calendar." The indices of yogas (col. 6) are the same as those of nakshatras (col. 8).

Tables LXXII, LXXIII, LXIV.

297. Prof. Jacobi (Epig. Ind. Vol. I, p. 450) has provided a Table, XIII, shewing for four of the Indian astronomical authorities the places of the sun and moon at the beginning of centuries, and another, XV, shewing their increases through the years of a century according to the Ārya-Siddhānta with Lalla's corrections. These corrections were to be applied to the First Ārya-Siddhānta from the year Śaka 420 expired, or from A.D. 498-99, i.e. from the date of its compilation by Āryabhaṭa. (See his Śishyadhivriddhida, Benares Edit. of S. Dvivedi, p. 10 v.v. 59, 60; p. 50, v.v. 18, 19.)

If, therefore, we establish by Aryabhata alone the values of "a", "b", "c" for 36 centuries of the Kaliyuga and add to these their values at the beginning of that era as given above

For the information of those who wish to compare the two it is desirable to point out that in Prof. Jacobi's Table VII (Epig. Ind. Vol. XI), under head "Equation" on left side, the tenth entry from the top "626" is probably a misprint for "616"; and in the same column, the eighth entry from the bottom, "152" should preferably be read "142."

² There appears to be one misprint in Jacobi's Table XIII. Under head "Dist. (→ uncorrected," in the section dealing with the Arya-Siddkānta, against K.Y. century 4300, the number of minutes should be "14" not "24,"

we shall arrive at their values (positions of sun and moon) at the beginning of K.Y. 3600—values, that is, recognized by Lalla; and Tables giving Lalla's estimate of the periodic changes in position of the sun and moon for centuries, years, and days will enable us to ascertain their position at any later date when computed by the $\bar{A}rya$ -Siddhānta with the $b\bar{\imath}ja$.

- 298. (i) First to find the century increase of "a", "b", "c" respectively according to Āryabhaṭa uncorrected. We work for mean summise values only, not for values at moments of Mēsha-samkrānti. We require, that is, the several increases in a common century of 36526 civil days and in a defective century of 36525 such days. In the 36 Kaliyuga centuries concerned there were 31 of the former and 5 of the latter.
- (ii) As regards the time-interval between the moments of mean Mēsha-samkrānti and the nearest mean sunrises at the beginning of each century, Prof. Jacobi's column headed "Cor." in Table XIII states these clearly in ghaţikas and palas. Mean Mēsha-samkrānti always occurs 2^d 3^h 32^m 30^s after true Mēsha-samkrānti, and the moment of the latter's occurrence every year is given in hours and minutes in col 17, Table I, "Indian Calendar." There is no difference between us in this respect.
- (iii) The advances in the values of "a", "b", "a" respectively during a common century of 36526 civil days according to Āryabhaṭa uncorrected, excluding whole revolutions, are—"a" (mean moon's distance from mean sun) 319° 24′ 30′·645, "b" (√'s mean anom.) 211° 1′ 55″·775, "c" (⊙'s mean anom.) 0° 7′ 48″·139. These in circle measurement (our notation) are—

 $\mu = 8872 \cdot 458680555$ $b = 586 \cdot 100443673$ c = 0.361215706

(iv) Taking only the circle measurement, the respective increases for one day of 24-hours are—

> $a = 338 \cdot 632000730$ $b = 36 \cdot 291575876$ $c = 2 \cdot 737785720$

(v) Deducting one day's increase from the former fixtures we have for a defective century of 36525 civil days—

> a=8533·826679825 b= 549·808867797 c= 997·623429986

We now have to work out the correct details for the first 36 centuries of the Kaliyuga, 31 common and 5 defective.

299. (i) "a". Using the above figures it is found that the advance of "a" in that period (omitting quantities of 10,000 or whole revolutions¹) was 7715·352496330; and since at the epoch of the Kaliyuga the distance between mean moon and mean sun was nil (above, § 290, xiv), the same represents their relation at the beginning of K.Y. 3600. But for tabulation purposes we have to deduct from this the sum of the greatest equations and ⊙ (§ 290 xiv; and 295). This sum, as already stated, I estimate at 199·115048361. Therefore the tabular "a" for the beginning of K.Y. 3600 is 7516·237447969. Prof. Jacobi gives this figure, as I interpret him,² in our notation as 7516·6. The difference between us is due to his estimation of the greatest equations and ⊙ as 198·7 (margin of Table quoted in footnote below) instead of 199·1. But I adhere to my figure, the reason for which has been fully explained.

There are 1236 synodical revolutions of the moon in a century,

³ Ir both sections of his Table V (Epig. Ind., Vol. XI, A and B) Prof. Jacobi's entry "76166" is manifestly a misprint for "75166." In the same Table, Section A, opposite "cent. 41" the entry "19789" should be "18789."

- (ii) "b". The advance of "b" in the first 36 centuries, omitting whole revolutions, was, in thousandths of the circle, 918 158092848. Adding to this the value of "b" at K.Y. 0 (§ 290, xiii), namely 250, we have for the moon's mean anom. at the beginning of K.Y. 3600, "b"=168 158092848.
- (iii) Now in this matter Prof. Jacobi and myself are not quite in accord. He states the value (Epig. Ind., Vol. XI, Table V-B) as in his notation 6718. This in my notation, measuring from perigee instead of apogee, is 1718. This figure corresponds to his valuation of "b" at that moment, in degrees, etc., as given in Epig. Ind., Vol. I, Special Table XIII, where it is fixed, for the moment of mean Mēsha-sankrānti, as 245° 6',0". The correction for mean sunrise value is the moon's change in 15 ghaţikas, or 3° 15' 58'-5; making the position of (at mean sunrise 241° 50' 1".5, which, in thousandths of circle, is 171.760416667. Not being absolutely certain in this case that my valuation is more accurate than his, I defer to him, and accept his figure as correct.
- (iv) In any very close case arising from the use of the Tables which follow, the difference between us in the value of "b", namely 3.6, may be deducted from the resulting "b", and the date tested by my own estimate.
- (v) "c". The change in the sun's mean anom. (our "c"), similarly calculated for the 36 centuries,² was 999:314836816. Adding 283.3, the value of "c" at K.Y. 0 (§ 290, xii), we have for K.Y. 3600 "c"=282:648170149. But here again there is a minute difference between my estimate and that of Prof. Jacobi. He gives, for the sun's mean anom. (measured from apogee) at the beginning of K.Y. 3600 (mean Mēsha-samkrānti), 282°—a value certainly correct. To obtain mean sunrise value 14′ 47″ has to be deducted,³ with the result 281° 45′ 13″, which in thousandths of circle=782:648919753, and in my notation (measurement from perigee) =282:648919753. I let this stand.
- (vi) The values, then, adopted in this work for the positions of ⊙ and C at mean sunrise at the beginning of K.Y. 3600 are—

 $a = 7516 \cdot 237447969$ $b = 171 \cdot 760416667$ $c = 282 \cdot 648919753$

300. (i) Table LXI below, however, the main working Table, starts from the year K.Y.
4000, and we have to add to the above figures the respective increases of "a", "b", "c" for
four centuries, these increases being assessed by Lalla's values and not by the original values
of Aryabhata (§ 289).

(ii) The increases of "a", "b", "c" in one day, one year and one century according to Lalla are given in the heading of Table LXIV below. The four centuries are all common ones, and, adding the necessary quantities, we have for the beginning of K.Y. 4000, —mean varies value—

a=2987.553682533 b=523.155092591

 $c = 284 \cdot 0937825774$

¹ There are 1325 anomalistic revolutions of the moon in a century.

Omitting 100 whole sidereal revolutions.

² 14′ 47°, or actually 14′ 47°·01, is the ⊙'s mean motion in 6 hours, the difference in time between mean sunrise and the moment of mean Mesha-sankranti on the day when, astronomically, K.Y. 3600 began.

⁴ We may estimate the value of "e" on the Sunday at the beginning of K.Y. 4000 in another way. The sun's mean anom, at the moment of mean Mesha-samkranti is always 283.3, or 102° (§ 290, xii). In the year in question, A.D. 899, true Mesha-samkranti took place (Indian Calendar, Table I) at 13° 47m 30° after man sunrise on Thurs., 22 March, while the moment of mean Mesha-samkranti was (§ 290, x) 2° 3° 32° 30° later, or 6° 40° before mean sunrise on Sunday, 25 March. Adding the sun's motion for 6° 40° from Table LXV below, viz. 0.760495686 to 283°3, the "e" for mean sunrise on that Sanday is found to be 284.093829019.

These agree, mutatis mutandis, with Prof. Jacobi's figures (Epig. Ind., Vol. XI, Table V), which, in my notation, are a=2988.0, b=523.2, c=284.1.

(iii) Now these values are, as will be seen from the entry "1" in Jacobi's column for the week-day (w.), the figures for mean sunrise on Sunday, that is to say, on Sunday 25 March, A.D. S99, mean Mösha-samkränti having taken place on the previous day, Saturday, a 17ⁿ 20^m after mean sunrise. Following general practice I work for mean sunrise on the day on which the mean samkränti occurred, i.e. for the Saturday, and deduct one day's values from the above.

Finally then the working, Tabular, values for the beginning of K.Y. 4000 (Sat. 24 Mar. A.D. 899, mean sunrise) are—

a = 2648.921808551 b = 486.863468853c = 281.355996857

301. The century Table LXXII below is prepared from these details by addition of century increases. All the centuries concerned except century 42, which was defective, are common ones, each of 36526 days.

Table LXXIII gives the increases of "a", "b", "c" for each year of the century, following Lalla's bija (correction).

Table LXXIV gives the values to be added for the days intervening between that on which true Mėsha-samkrānti occurred in each year and the day of the corresponding beginning of the luni-solar year, i.e. the civil day called "Chaitra sukla 1." This Table is prepared for the purpose of assisting workers to check the main Table entries giving the values of "α", "b", "c" (Table LXI, cols. 23-25). The week-day stated in the main Table will always serve as a guide. Compare the similar Table in my article on the Siddhānta-Širōmani above, where instructions for its use are given (§ 279).

THE NAKSHATEA.

302. A special note must be made regarding the working of the "Indian Calendar" rule (§ 156, p. 97) for obtaining approximately the index of the nakshatra.

It will be observed there that part of the process (see § 133, Ind. Cal.) consists of the addition to the value of "c", the sun's mean long, of a constant, viz. 7207, as stated in 10,000ths of circle. This is the Sūrya-Siddhānta quantity. For work by the Ārya-Siddhānta we require the Ārya-Siddhānta quantity

The Sürya-Siddhānta figure is made up of (i) long. of sun's perigee-point² (257° 15′ 55″-7=) 7146·3 and (ii) 60·4, the greatest equation of the sun's centre.

Now (i) the long, of the sun's perigee-point according to the Ārya-Siddhānta is always 258°, or, in 10,000ths of circle, 7166.6 (§ 290, v, above); and (ii) the greatest equation of the sun's centre (§§ 295, 296) is 59.6875 Hence the Ārya-Siddhānta constant for calculating the nakshatra is (7166.6+59.6875=) 7226.3542; and for approximate calculation is 7226, not 7207.

¹ There appear to be two misprints in Prof. Jacobi's Table VI (Epig. Ind., Vol. XI, p. 165) in which he gives similar annual increases. Against year 3, under "c," "61" should be "6"; and against year 52, under "a," "16312" should be "16352,"

² This is its position in A.D. 1100, a date about the middle of the period, A.D. 300—1900, dealt with in Table I of the Indian Calendar. In ten-thousands of circle the long, of perigee by the Sürya-Siddhänta varies from 7145-54563 in A.D. 300 to 7145.97916 in A.D. 1900.

Thus the rules for finding the nakshatra by the Arya-Siddhanta are as follows :-

A. Roughly. Find "a", "b", "c" and "t" in whole numbers; multiply "c" by 10; add 7226 to the result; from this subtract "equation c." The result is "s", the sun's true longitude.

B. More closely. Find "a", "b", "c" and "t" with the fractions in decimals; to the value of "c" multiplied by 10, or with the decimal point one place to the right, add the constant 7226:3542; from the result deduct (including decimals) the amount of "equation c." The result is "s" in full detail. s+t=n, the index of the nakshatra, with which turn to Table LXVIII, which gives the name of the nakshatra and fixes the true moon's place in the ecliptic circle.

The work is shewn in Example 7 below.

EXAMPLES.

Example 1. To find the "a", "b", "c" values for mean sunrise on the first civil day of the luni-solar year.

Rule. Add together the entries in Tables LXXII and LXXIII for the corresponding expired year of the Kaliyuga, and those in Table LXXIV for the number of days' interval from true Mēsha-samkrānti (Table LXI, col. 13, bracket-number) to the first civil day of the lunisolar year, called "Chaitra sukla 1" (col. 19, bracket-number). Note specially the week-day of Chaitra sukla 1, and work for that day. Decimals need not be used except in close cases.

For an example I take the year A.D. 1110-11. It corresponds (Table LXI) to K.Y. 4211 expired. The entries shew that true Mēsha-samkrānti occurred on Day 83 (Thursday 24 March A.D. 1110), and Chaitra šukla 1 on Day 82, the day previous. Interval between them 1 day.

Full work with the decimals :-

COLL TAKEN D	wd.	a.	b.	o.
(Table LXXII) Beginning K.Y. cent. 42	. (0)	384-5799	662-5608	282-0784
(Table LXXIII) Beginning year 11	. (0)	622-8697	819-7442	0.4230
(Table LXXIV) Interval of day	vs, (4)	8984-1044	891-1251	991-7866

These are the entries for that day in Table LXI.

The same result can be obtained by first finding the "a", "b", "c" for mean sunrise of the day on which true Měsha-samkrānti took place, and then deducting the values for the intervening days as given in Table LXIV. [The day on which true Měsha-samkrānti took place is, in Table LXXIV, the day "Měsha 0" (col. 2).]

Nowing to the formation of the several Tables the interval of days measure I by their bracket-numbers in Table LXI, cols. 13, 19, sometimes differs by 1, but never by more than 1. But this leads to no difficulty when the desire I week-day is duly noted. The point to remember is that the resulting week-day in our addition must be the correct one as given in Table LXI, and that we must use the entries in Table LXXIV for such number of days as will make the final week-day the one we work for.

Thus :—				
	wd.	a.	be	· Ca
(Table LXXII) As before	(0)	384-5799	662.5608	282-0784
(Table LXXIII) Do	(0)	622-8697	819-7442	0.4230
(Table LXXIV) "Měsha 0" .	(5)	9322-7363	927.4168	994:5244
At mean sunrise on day of true Mesha-samkranti, (5) Thursday,				
24 March (Day 83)	(5)	330-1859	409-7218	277-0258
(Table LXIV) Less 1 day interval	-1	-338.6319	-36.2916	-2.7378
At mean sunrise on Day 82, (4) Wed, 23 March	(4)	9991-5540	373-4302	274-2880
The result is the same as above.				

Example 2. The same for a year with a greater interval of days between Mesha-samkranti and Chaitra śukla 1.

Take the year A.D. 1603, K.Y. 4704 expired. The interval of days from true Mēshasamkranti (Table LXI, col. 13) back to Chaitra sukla 1 (col. 19) (mean sunrise in both cases) is (87-62) 25.

FIRST PROCESS-with full decimals :-				
	10d.	a.	ъ.	c.
(Table LXXII) Cent. 47	(6)	4385-0933	565-5125	281:1467
(Table LXXIII) Year 4	(5)	4741.1679	22:0623	999-9049
(Table LXXIV) Interval 25 days	(1)	856-9394	20.1262	926:0798
At mean sunrise on Day 62, or Chaitra sukla 1, (5) Thursday 3 March, A.D. 1603	(5)	9983-2006	607-7010	207:1314
These are the entries in Table LXI.				
SECOND PROCESS :	- 1		1 4	
(Table TXXII) C-1 45	wd.	a.	b.	6.
(Table LXXII) Cent. 47	(6)	4385-0933	565-5125	281-1467
(Table LXXIII) Year 4	(5)	4741-1679	22.0623	999-9049
(Table LXXIV) "Mesha 0" .	(5)	9322-7363	927-4168	994-5244
At mean sunrise of (Day 87) Měsha-samkránti day, (2) Mon.		1113		
28 March, A.D. 1603 (Table LXIV) Less for 25 days'	(2)	8448-9975	514-9916	275:5760
interval	-(4)	-8465·7968 -	-907-2906	-68-1446
	1000	EX III		1
At mean sunrise on Day 62 Result, the same.	(5)	9983-2007	607.7010	207-1314
ACCOUNTY THE SKILLE.				

COMPUTATION OF A DATE.

Example 3. We will now take a suppositious Record-date, and in the following examples explain the complete method of work for proving the accuracy of all its details; and for settling some other matters.

The date is "Śaka 1148 expired, K.Y. 4327, Vyaya, Saturday, Bhādrapada śukla 5, Kanyā I, Bāva karaṇa, nakshatra Višākhā, yoga Vaidhriti, Kanyā lagna."

Table LXI shews that the year corresponded to A.D. 1226-27; that in that year true Mēsha-samkrānti took place 3^h 55^m after mean sunrise on Wed. 25 March (Day 84 from 1 Jan.); that the civil day "Chaitra šukla 1" was Sanday 1 March (Day 60 from 1 Jan.); and that (col. 8) the lunar month Ashāḍha was intercalated in that year. The year was called "Vyaya" in South India, "Vikṛita" in the North.

The interval of days between the initial days of the solar and luni-solar year was (84-60) 24.

In this example we work for the values of "a", "b", "c" and "t" at mean sunrise of the day "Chaitra sukla 1", which is stated in Table LXI to have been (col. 20) a Sunday. We work by the first process shewn above, and with full decimals. In using Table LXXIV for the interval of days—24 as already stated—it is observed that the week-day number (col. 3) for that number of days' interval (col. 1) is 2, and that, since the week-days obtained for the year from Tables LXXII, LXXIII are respectively 6 and 6, total 12, the addition of 2 will make total 14, or 0, or a Saturday, whereas the day we are working for was Sunday. Hence we use the figures for 23 days' interval, week-day 3, which gives us the correct "a", "b", "c" for 1 Sunday. (See note to Example 1.)

	wd.	a.	b.	£.
(Table LXXII) K.Y. Cent. 43 .	(6)	8913-7771	214-1179	279.7019
(Table LXXIII) Year 27	(6)	9587.5412	907-9933	0.0428
(Table LXXIV) 23 days' interval	(3)	1534-2032	92-7094	931.5554

At mean sunrise on (1) Sunday 1
March, A.D. 1226, i.e. the day
"Chaitra sukla 1" (1) 35-5215 214-8206 211-3001

The above work has been thus fully carried out in order to prove the correctness of the entries in Table LXI, cols. 23, 24, 25, which are the same. This work is not required to be done in practice as the Table provides the information.

Now, knowing the Table entry to be accurate, we proceed

The tithi. Ordinary work

Example 4. The true tithi. The given date is Bhādrapada sukla 5. Table LXIII-A shews that, Āshādha having been intercalated in the year in question and Bhādrapada being therefore the seventh and not the sixth lunar month of the year, it began about 177 days after the day "Chaitra sukla 1"; consequently "Bhādr. suk. 5" was about 181 days after. Having

¹ The mean tithi (and probably the mean makshatra and yoga also) was used in earlier years—to how late a date is not yet known. The mean tithi is the mean moon's distance from mean sun, our a. To find it, add to the ascertained value of a (as in Example 3) for the day the sum of the greatest equations of moon and sun, i.e. 199-1150. The total gives the a of the mean tithi (= t of the true tithi). Thus for the day in question the mean tithi-index is (36+199) 235, or $(35\cdot5215+199\cdot1150)$ 234-6365. This was its value at mean sunrise of the given day.

added the values of "a", "b", "c" for 181 days to those already found for Chaitra sukla 1. the equations of "b" and "c" are added from Tables LXVI, LXVII approximately, or from Tables LXVI-A, LXVII-A in very close and doubtful cases, to the resulting value of "a" for the day; thus "t", the true tithi-index, is found.

In this example we work approximately.

The serial number of the day Chaitra sukla 1 (in March A.D. 1226) is 60 and the week day 1 Sunday (Example 3). The a, b, c for mean sunrise have been settled in Example 3.

At mean sunrise on day 241, t=1448=(Table LXVIII) sukla 5.

Day 241 was (Table LXIX) August 29. Week-day 0=Saturday. Reference to Table LXXI confirms this as the right week-day.

The given Hindu date then is so far correct. The 5th sukla tithi of Bhādrapada ended on and gave its name to, Sat. 29 Aug. A.D. 1226. For historical purposes it is seldom necessary, unless the karana is mentioned, to find the time of beginning and ending of the tithi, but if required this is obtained approximately from Tables LXVIII, col. 3, and LXIX. At mean sunrise the tithi-index was 1448. It began (1448—1333 =) 115, or (Table LXX) 8^h 9^m before, and ended (1667—1448 =) 219, or 15^h 31^m after mean sunrise on that Saturday.

The tithi. Exact work.

Example 5. Working the same date with the full decimals, we have-

			(241)	(0)	1327-8907	783-6045	706,9909
Table LXIV .		1	(181)	(6)	1292-3692	568.7839	495.5392
As in Example 3	•		(60)	(1)	35.5215	214.8206	211:3001
			d.	wd.	a.	b.	C.

For either "equation b" or "equation c" note the difference between the values of "b" or "c" thus found and the nearest value respectively in Table LXVI-A or LXVII-A, cols. 2a, 2b. Multiply this difference by the group-difference (col. 4). Divide the result roughly by 2 or exactly by 2.083; and add or subtract the result to or from the standard equation-value given in the Table (col. 3) as necessity demands.

[This is the complete process, but it almost always suffices to arrive very near to the truth merely by the exercise of common sense, using Tables LXVI-A, LXVII-A as Eye-Tables.]

Here the moon's anom. "b" is 783.6045, and the nearest amount of "Argument b" in Table LXVI-A is 783.3, whose exact equation is 3.1006 (col. 3). As the difference in anom, is only about 0.3, viz. 0.2712, and the group-difference only 0.4150 we may take 3.1006 as the required equation of the given anom. Or we may work roughly by a multiplication of the first two decimals of the anom, diff. (0.27) by those of the group-diff. (0.42) and a division of the result by 2—yielding 0.0567, which, added to 3.1006, makes "equation b"=3.1573; or we may work completely with all four decimals, arriving at the absolutely correct result 1546.

The sun's anom. "c" is 706.8393. The equation is similarly found by use of Tables LXVII or LXVII-A. The nearest amount of "Argument" in Table LXVII-A is 706.2500. Full work is as follows.—Diff. in anom. is 0.5893. This, multiplied by the group-difference (col. 4) 0.2257, is 0.133005. This, divided by 2.083, is 0.0638. The equation of anom. 706.2500 is (col. 3) .17.1181. This plus 0.0638=117.1819, the exact equation required.

Applying, as before, these exact equations of the values of anom. "b" and "c" to the value of "a", we have—

As alrea	dy fou	nd	7	1327-8907
Eqn. b	O'ME TO SE	190		3.1546
Eqn. o	50.5			117-1819

The tithi-index, t=1448.2272

By the work as in Example 4 the tithi-index (t) at mean sunrise was 1448.

The karana.

Example 6. The karana is half a tithi. See Table LXVIII, cols. 4, 5. For the date we are examining (Examples 3, 4, 5), viz. sukla 5 (Table, col. 2), the two karanas are Bāva and Bālava. The tithi began (end of Example 4) 8h 9m before and ended 15h 31m after mean sunrise on 29 Aug. A.D. 1226. Its length was 23h 40m. Half of this is 11h 50m. Thus Bāva was the karana from 9h 9m before to 3h 41m after mean sunrise on 29 Aug., and Bālava was the karana from 3h 41m to 15h 31m on that day. Since the karana mentioned in the given date was Bāva the action referred to in the record must have taken place between mean sunrise and 3h 41m later, on 29 Aug. 1226, i.e. roughly between 60 and 9.41 A.M. on that day.

The nakshatra.

Example 7. Required the nakshatra of the same day, month and year as in Examples 3, 4, 5, 6.

A nakshatra, or lunar mansion, is, in the equal-space system, a 27th part of the complete journey of the moon in a lunar month through the circle of the stars. Our nakshatra-index shews in which of these parts the moon was at any given moment. In these examples we are working for the true, not mean, moon's place. Each of these 27 parts has its own nakshatra-name and yoga-name (see Table LXVIII). In the systems of Garga and the Brahma-Siddhānta the divisions of the constellation-circle are unequal, being designed more nearly to suit the positions of the principal stars, but the names of the divisions are the same as in the equal-space system.

The indices of the beginning and ending points of the nakshatras are stated, in 10,000ths of the circle, in Table LXVIII. The same in degrees are given, together with those of the zodiacal solar signs, in "Indian Chronography," Table XXII.

(A) The rule for finding the nakshatra roughly when working with only whole numbers is as follows:—Take the "c" of the date; multiply it by 10; add the constant 7226 (see § 302 above); and deduct the amount of "equation c." This gives "s", the sun's true longitude at mean sunrise of the given day. Add "s" to "t" and the result is "n", the nakshatra-index Reference with this index to Table LXVIII (cot & or 9, or 10) shows the nakshatra required,

Mr. G. R. Kaye, in his "Astronomical Observatories of Jai Singh" (p. 117), gives the actual lat. and long. of the stars after which the unkshatras were named.

i.e. the true moon's place amongst the constellations at mean sunrise, stated in 10,000ths of the circle. The moon's place in degrees, minutes, and seconds can be found by Table XLV-B, above.

Thus, by the figures in Example 4:-

 $c \times 10 = 7070$ Constant +7226

4296

Less eqn. c — 117

Sun's true long., s = 4179Tithi-index, t, +1448

Nakshatra-index n =5627=(Table LXVIII, cols. 8, 9, 10) Viŝākhā by all systems.

This is approximately correct.

(B) Greater exactness can be obtained by using the decimals as in example 5, thus -

 $c \times 10 = 7068.3930$ Constant +7226.3542 4294.7472Less eqn. c = 117.1819 s = 4177.5653 t + 1448.2272n = 5625.7925

There is here a little difference in the resulting nakshatra-index, which may in some cases be as great as nearly 10 units owing to the roughness of the earlier method.

(C) The value of "s" at mean sunrise of the day in question can also be obtained easily by my Tables for the sun's true longitude for each day of the solar year given above (pp. 45—130). The following shews the method of work:—

In the present case the serial number of the day in question was 241 (Example 4). True Měsha-samkränti took place (see Example 3) on Day 84 at 3h 55^m after mean sunrise. The day of our date was (241-84) the 157th period (each of 24 hours) after the moment of true Měsha-samkränti. On this 157th day at 3h 55^m after mean sunrise the sun's true longitude, "s" was, in 10,000ths of circle, 4182·0049 (Table XLVIII-A, above, p. 74, col. 9). Deduct the values for 3 hours (Table XLIX, p. 96, sun's true motion on that 157th day) and 55^m (Table L, mean motion in minutes), viz., respectively, 3:3852 and 1:0457, total 4:4309.

4182·0049 - 4·4309

At mean sunrise " s"=4177.5740

This is the value of "s" at mean sunrise of the 29 August of our date, and, added to ";" (1448 2272), it gives us the correct nakshatra-index 5625 8012, shewing a slight difference of 0-0087 in results.

If, for even greater accuracy, instead of using the value of the sun's mean motion in 55^m we had worked by his true motion on that 157th day, viz. by dividing by 60 his true motion in 1 hour (Table XLIX, p. 96) and multiplying the result by 55, we should have found "n" =5625.8092.

This method C, for finding the sun's longitude "s", is believed to be absolutely accurate and should be relied on in case of doubt.

The yoga.

Example 8. The nakshatra (Example 7), as quoted in the given date shews in which of the 27 sidereal divisions the moon stood at the moment in question, or the extent of the moon's journey from celestial long. 0°. The yoga deals with the combined journeys of both sun and

To find, therefore, the index of the yoga at mean sunrise of the given day we have to add the long. of the true sun to the long. of the true moon at that moment. But the long, of the true moon is the index "n", i.e. the nakshatra-index already found. And the long, of the sun is the index "s", also already found (Example 7).

Hence the yoga-index "y" = s + n; or, since n = s + t (Example 7), y = 2s + t. The latter formula makes it easy to find the yoga when it is unnecessary to find the nakshatra.

At mean sunrise of 29 Aug. A.D. 1226 we have found that "s" = 4177:5653 and that "n" = 5625:7925; hence the yoga-index "y" = 9803:3578, and (Table LXVIII) the yoga of the day was 27 Vaidhriti. If we had not already ascertained the amount of the nakshatra-index "n", but knew that "s" = 4177:5653, we could have multiplied this value of "s" by 2 and added the quantity to the amount of the tithi-index "t". The result is the same.

The several samkrāntis.

Example 9. To find the values of "a", "b", "c" and "t" at the moments of the several solar samkrāntis in the given year, and thereby to find whether a lunar month was common, intercalary (adhika), or suppressed (kshaya)

A samkranti takes place when the sun touches the point of a zodiacal sign, i.e. when he reaches long. 30°, 60°, etc. When, at the first of two such successive occurrences, the true moon is waning and at the second is also waning, or at the first is waxing and at the second is also waxing, the lunar month is common. If the moon is waning at the first and waxing at the second, the lunar month is repeated. It is intercalary (adhika). When the moon is waxing at the first and waning at the second the lunar month is altogether suppressed (kshaya).

Thus it is necessary to find the "a", "b", "c" for the moment of the astronomical beginning of the solar year, the actual moment, that is, of the true Mēsha-samkrānti, and add to their values their respective increases during the several true solar months, thus obtaining the "a", "b", "c" for the moments of the true samkrāntis concerned. Adding to the value of "a" at the moment of a samkrānti the values of "equation b" and "equation c" (as in the former examples), we find the index of the tithi "t", which shews whether the true moon was waxing or waning at the moment.

The date and time of the true Mēsha-samkrānti is given in Table LXI, cols. 13, 14, 17. The intervals in time to each subsequent samkrānti, and the collective intervals to each, are given in Table LXIII-B, cols. 8 and 3; and the corresponding increases in the values of "a", "b", "c" are given in the same Table, cols. 9, 10, 11 and 4, 5, 6.

We will consider the conditions for the first few samkrantis of the same year as in Examples 3-8, viz. A.D. 1226-27, K. Y 4327, Saka 1148.

First we have to ascertain the values of "a", "b", "c" at the moment of true Mēsha-samkrānti, which took place (Table LXI, cols. 13, 14, 17) at 3h 55m after mean sunrise on Day 84, namely Wednesday 25 March A.D 1226. The "a", "b", "c" for mean sunrise of Day 60, Sunday, 1 March, the day of Chaitra sukla 1, are given in cols. 23, 24, 25 of the same Table. Interval between the two, whole days, (84-60=) 24. Taking down the "a", "b", "c" for 25 March and adding their increase for 24d 3h 55m from Tables LXIV, LXV, we find the values of "a", "b", "c" at the moment of true Mēsha-samkrānti, as required.

Table LXIII-B gives us the exact interval in time and the amount of increase of "a", "b", "c", during that interval, up to the moment of every subsequent sankranti in the year. In close cases, of course, full decimals can be used and the equation-values very carefully examined, but in general it is only necessary to use whole numbers, as in this example. Only in a doubtful case need we do more.

We desire, let us suppose, to ascertain, from the values of "t" at the respective Mithuna and Karka-samkrantis, whether the moon was waxing or waning at the moments of their occurrence. The work is as follows:—

d	w.+d.	a.	Ъ.	C.
Mean sunrise Chait. suk. 1 (Table LXI) . 60	1	36	215	211
24 days' increase (Table LXIV) 24	3	8127	871	66
3 hours' do. (Table LXV)		42	5	0
55 minutes' do. (do.)		13	1	0
At moment of true Měsha-samkránti 84	4	8218	92	277
Interval to Mithuna samk. (T. LXIII-B, left side)	+1105	262	171
At moment of Mithuna-samkranti		9323	354	448 1
Eqn. b (Table LXVI)		250		
Eqn. c (Table LXVII)		41 1		

Index, at moment of Mithuna-samk., of true moon . t = 9614

This value of "t" shews that at the Mithuna-samkranti the moon had not reached the point of new moon when "t" = 10,000. She was still waning.

At moment of Mithuna-samkranti Interval to Karka samk. (T. LXI			9, 10,	11)	9323 703	6. 354 147	c. 448 47
At moment of Karka-samkranti			100		26	501	535 1
Eqn. b (Table LXVI) .			-	(4)	138		
	٠		10	0.00	73 1		
		Tith	i-inde	х .	 = 237		

[It is not really necessary, when it is seen that "a" (here 26) is greater than 0, to add the equations, because the value of "a" proves that the moon had begun a new synodical revolution and was waxing.

The value of "t" (and "a") shews that the moon was waxing at the Karka-samkrānti.

Thus the lunar month Āshāḍha (see cols. I, 2, Table LXIII-B) was intercalated in the given year.

The place of the moon at the moments of the later samkrantis is obtained, if required, by a continuation of similar work and the use of Table LXIII-B

¹ See note to Table LXIII B. These values are given in the auxiliary Table. At the Mithuna-samkranti "c" is always 448 0877 and "cqu. c" always 40 5649. At the Karka-samkranti "c" s always 534 6213 and "equ. c" always 72 5193.

Days of the solar year.

Example 10. To find the day and week-day of the solar year corresponding to any given day in the luni-solar year.

The moment of true Mesha-samkranti, as given in Table LXI, cols. 13, 14, 17, marks the astronomical beginning of the solar year. In different parts of India (see Indian Calendar, § 28, p. 12, and Indian Chronography, § 43, pp. 18, 19) there are different rules for fixing the first day of the solar month, which is sometimes the same day, sometimes the next day, sometimes (in Bengal) the third day. In the present case we imagine the record to have come from the Tamil country and we work by the Tamil rule.

In the given year (Example 3), A.D. 1226, true Mēsha-samkrānti took place on Day 84 (measured from Jan. 1), Wednesday 25 March, at 3h 55m after mean sunrise, and the Wednesday was the day "1 Mēsha" since the samkrānti occurred before sunset.

The days in Mesha follow regularly. But to find the first civil day of each successive month in the year we must establish the moment when each samkranti took place. This information is obtained from Table LXIII-B.

We have determined the given date to be (see Examples 4, 5) the serial day 241 measured from Jan. 1, and the 157th day after the day on which Mēsha-samkrānti occurred, which was Day S4. Turn to Table LXIII-B. Kanyā began 156 days after true Mēsha-samkrānti so our date will be in the solar month Kanya. Calculate the moment of occurrence of the Kanyasamkranti in the given year from the same Table.

Manager 1 To 1	d.	wd.	h.	171.	
(Table LXI) True Mēsha-samkrānti .	 (84)	(4)	3	55	0
(Table LXIII-B) Interval to Kanyā-samk.	- (ACS () ACS ()	(2)	10	24	25
Moment of Kanya-samkranti	(240)	(6)	14	19	25

By ramn rule, since the samkranti took place after sunset, or 12h Lanka time, viz. at 14t 19m 25* after mean sunrise, the civil day "1 Kanya" was not (6) Friday (Day 240) 28 August, the day of the samkranti, but was Saturday (Day 241), 29 August.

And this Saturday happens to have been the very day of our record, which day was in

solar-year reckoning "1 Kanya."

[Observe that if the record had come from Bengal its solar date would have been the same, since the sainkranti occurred before midnight on Friday, and the Saturday was therefore "I Kanyā." Had it come from Orissa, the Saturday would have been "2 Kanyā," since the first day of the solar month is, in that country, always the day of the samkranti, and so "1 Kanyā" was the Friday. By the Malabar Rule "1 Kanyā" was Saturday.]

The lagna.

Example 11. On the day in question (Example 7) it has been established that at mean sunrise the sun's true long. "s", in 10,000ths of the circle, was 4177 5653. To calculate the lagna we must have "s" in degrees, etc., which can be calculated by Table XLV-B, above, or by Tables XLVIII-A, XLIX, L. We work by the latter.

The day of the record was the 157th after true Mēsha-samkrānti, which took place 3h 55m after mean sunrise on the day of its occurrence. Table XLVIII-A (p. 74, col. 9) shews that at 3h 55m after mean sunrise 157 days later the sun's true long. "s", was 150° 32' 7'-84. Deduct his motion (true) for 3h by Table XLIX (p. 96), viz. 7' 18"-72, and (mean) for 55° by Table L, viz. 2' 15"52, total 9' 34".24. Then "s" at mean sunrise was 150° 23'

The long of the point of rising of Kanya is (Indian Chronography, Table XXII) 150°, and that sign ends at 180°. Take the ending-point and calculate the distance between it and the san at mean sunrise. 180°-150° 23′ 33".60=29° 36′ 26'-40. There is no need here for great accuracy, and we take this as 29° 36'. Turn this into time by multiplying the degrees by 4", and the minutes by 4". Resu h 58" 24".

Thus on the given day Kanyā was lagna from very shortly before till about 1^h 58^m after mean sunrise.

In examining the given date in the matter of the karana (Example 6) we found that the action referred to in the record must have taken place between mean sunrise and 3^h 41^m later, or between 6.0 and 9.41 a.m., on Sat., 29 Aug., A.D. 1226. The mention of the lagna still further reduces the time and shews that the action referred to must have taken place between mean sunrise and a time 1^h 58 later; or between 6.0 and 7.58 a.m. on that day.

NOTE.

The above examples may perhaps, strike the uninitiated as involving an immense amount of complicated work in order to obtain the desired result. But such is by no means the case. Every date can be calculated in whole numbers at first, and it is very seldom that the decimals need be resorted to. They are provided for the purpose of deciding doubtful cases where very great accuracy is required.

For all the details of the given date,—and it is very seldom that so many are stated in an inscription or grant,—the following exemplifies all the work necessary to be done to put us in full possession of the facts. In about a quarter of an hour we learn everything that has to be learned; and when less details are given their accuracy can be proved or disproved in a few minutes. What follows shews the ordinary work to be done for the date given in Examples 3-10.

Given year = Śaka 1148, K.Y. 4327, Vyaya, A.D. 1226-27.

(The lagna requires a short calculation by itself.)
The above decides the solar month, day and week-day.

- " " " Iuni-solar month, day and week-day.
- tithi.
- " " " karaņa,
- , , , nakshatra.
- n n n yōga.
- " " the positions of sun and moon, their longitudes, and distance from one another.
- " , the time of day referred to, within 2 hours.

TABLE A.

DIFFERENCES IN THE CALENDAR BETWEEN ARYA AND STRYA SIDDHANTA FIXTURES.

- Cols. 1, 2.—The number of the year here given is the one generally used in records of the year A.D. noted in column 3, and is stated here so as to catch the eye readily. In referring to the main Table LXI the number of the year in columns 1, 2 therein is the present number advanced by 1, being the corresponding concurrent year.
- Col. 4, Class A .- Samvatsara-names given to solar and luni-solar years by northern system.
- Col. 4, Class B.—Intercalations and suppressions of different lunar months. "adh."=an intercalated (adhika) month; "ksh," a suppressed (kshaya) month.
- Col. 4, Class C.—Differences in the civil day called "Chaitra Sukla 1," the civil beginning of the luni-solar year. The figure in brackets in columns 5, 6 is the number of the civil day measured from January 1st.

K. Y.	Saka expired.	A. D.	Class.	Fixtu	RES ACC	CORDING TO THE
				First Ārya-Siddhār	ata.	Sürya-Siddhänta.
ı	-2	3	4	5		6
4007	828	906-7	A	1 "Prabhava"		60 "Kshaya."
4008	829	907-8	A	2 " Vibhava"	. :	
4009	830	908-9	A	3 "Sukla"		2 " Vibhava."
4075	896	974-75	В	4 Ashādha raih		
4080	901	979-80	В	6 Bhadrapada (adh.)	1	3 Jyeshtha (adh.).
4092	913	991-92	A	27 "Vijaya" .		26 " Nandana."
4093	914	992-93	A	00 H T 11		27 " Vijaya."
4094	915	993-94	Δ	29 "Manmatha"		28 " Jaya"
4095	916	994-95	A	30 Durmukha"		29 " Manmatha."
4159	980	1058-59	В	4 Ashādha (adh.) .		3 Jyeshtha (adh.).
4177	998	1076-77	A	53 "Siddhärthin",		
4178	999	1077-78	A	54 " Raudra"		52 "Kālayukta."
4179	1000	1078-79	A	55 " Durmati"		53 "Siddhārthin."
4180	1001	1079-80	A	56 " Dundubhi"		54 "Raudra,"
4193	1014	1092-93	C	11 Mar. (71), 5 Thur.	: :	55 " Durmati." 12 Mar. (72), 6 Fri.
4232	1053	1131-32	В	5 Śrāvaņa (adh.) .		The state of the s
4251	1072	1150-51	B	5 Stavana (adn.)		4 Ashādha (adh.).
4256	1077	1155-56	B	5 Sravana (adh.) .	21 (5)	4 Ashādha (adh.).
4257	1078	1156-57	B	1 Chaitra (adh.)		12 Phälguna (adh.).
id.	id.	id.	C	23 Feb. (54), 5 Thur.	: :	Nd. 24 Mar. (84), 0 Sat.
4262	1083	1161-62	Α.	10 " Pr-41: " "		
4263	1084	1162-63	A	19 "Parthiva" 20 "Vyaya"		18 " Tāraņa."
4264	1085	1163-64	A	91 W Samontial		19 "Parthiya."
4265	1086	1164-65	A	00 # C 11 # + #	20. 2	20 " Vyaya,"
Sec. 6	- 32		" 1	7 Asvina (adh.)		21 "Sarvajit."
4313	1134	1212-13	B	11 Māgha (ksh.)		1
			1	12 Phälguna (adh.)		}7 Āśvina (adh.)
4348	1169	1247-48	A	46 " Paridhāvin" .		AR HATTANA A A A A
4349	1170	1248-19	Λ	47 "Pramadin."		45 "Virouhakrit."
4350	1171	1249-50	A	48 "Ananda"		46 "Parichavin."
4351	1172	1250-51	A	49 "Råkshasa"		47 " Pramādin." 48 " Ānanda.
6356	1177	1255-56	C	11 Mar. (70) 5 Thur.		10 Mar. (69), 4 Wed.
1000	1100		- (9 Märgasira (adh.)		8 Kārttika (adh.).
1378	1199	1277-78	B	10 Pausha (ksh)		10 Pausha (ksh.).
				12 Phalguna (adh.)		12 Phälguna (adh.).
1000	1010	1000 pm	100	process to the last	(9 Mārgaeira (adh.).
4397	1218	1296-97	В	12 Phälguna (wih.)	1	10 Pausha (ksh.).
					1	12 Phālguna (adh.)

TABLE A-Contd.

к. у.	Saka			Fixtur	RES ACC	ORDING TO THE
expired.	expired.	A. D.	Class.	First Ārya-Siddhār	ıta.	Sārya-Siddhānts.
1	2	3	4	5		6
					9	8 Kärttika (adah.)
4416	1237	1315-16	В	12 Phälguna (adh.)	. 1	9 Mārgašira (ksh.). 12 Phālguna (adh.).
4433 4434	1254 1255	1332-33 1333-34	A	12 "Bahudhānya" 13 "Pramāthin"	: :	1 T /2 14 Th 1 Th 1 Th 1 Th 1 Th 1 Th 1 Th 1 T
4435	1256	1334-35	A	14 " Vikrama" .		13 ' Pramāthin."
4436	1257	1335-36	A	15 "Vrisha" 7 Asvina (adh.)		14 " Vikrama."
4454	1275	1353-54	B	11 Māgha (kth.) 12 Phālguna (adh.)	1 :	>6 Bhādrapada (adh)
4471	1292	1370-71	В	3 Jyeshtha (adh.)		2 Vaiśākha (adh.)
4481	1302	1380-81	В	Nil.		8 Kārttika (adh.). 9 Mārgašira (ksh.).
4492	1313	1391-92	В	7 Aśvina (adh.) .		6 Bhadrapada (adb.).
4509	1330	1408-9	В	3 Jyeshtha (adh.)		O Tretaint To State 5
4511	1332	1410-11	В	7 Āśvina (adh.) .		6 Bhādrapada (adh).
4518	1339	1417-18	A	38 "Krôdhin"		37 "Söbhana."
4519	1340	1418-19	A	39 "Viśvāvasu". 8 Kārttika (adh.)		38 "Krödhin."
id.	id.	id.	B	11 Māgha (ksh.) 12 Phālguna (adh.)		8 Kärttika (adh.)
4520	1341	1419-20	A	40 "Parabhava" .		39 " Viśvāvasu."
4521	1342	1420-21	A	41 "Plavanga" .		40 "Parabhava."
4537	1358	1436-37	C	18 Mar. (78), 1 Sun. 8 Kärttika (adh.)		
4557	1378	1456-57	B	10 Pausha (ksh.) .		
	-		1	12 Phälguna (adh.)		The state of the s
4566	1387	1465-66	В	2 Vaišākha (adh.)		1 Chaitra (adh.).
4574	1395	1473-74	C	28 Feb. (59), 1 Sun.		27 Feb. (58), 0 Sat.
4576	1397	1475-76	B	7 Aśvina (adh.) . 10 Pausha (ksh.) .		
	- A 101			12 Phälguna (adh.)		12 Phalguna (adh.).
4587	1408	1486-87	. В	6 Bhādrapada (adh.)	1	5 Srāvaņa (ad.).
4603	1424	1502-3	A	4 " Pramoda" .		3 "Sukla,"
4604	1425	1503-4	A	5 "Prajapati" .		4 "Pramoda."
id, 4605	id. 1426	id. 1504-5	B	2 Vaisākha (adh.) 6 " Angiras"		E of Danie and My
4606	1427	1505-6	A	7 "Śrimukha"		fil 44 A Agricon 19
id.	id.	id.	B	6 Bhādrapada (adh.)		5 Srāvaņa (adh.).
4607	1428	1506-7	Α	8 "Bhāva" .		7 "Srimukha."
4608	1429	1507-8	A	9 "Yuvan"		8 " Bhāva."
4609	1430	1508-9	A	10 "Dhātri"		9 "Yuvan."
4610	1431 1432	1509-10 1510-11	A	11 "Iśvara" 12 "Bahudhānya"		10 " Dhātri." 11 " Iśvara."
			13077		20 1	to a Dahadisana !!
4612 4613	1433 1434	1511-12 1512-13	A	13 "Pramathin" . 14 "Vikrama" .	1	10 to Day on Table 27
4614	1435	1513-14	A	15 " Vrisha"	1	14 "Vikrama"
4615	1433	1514-15	A	16 "Chitrabhānu"		15 " Vrisha,"
4622	1443	1521-22	В	Nil.		8 Karttika (adh.).
1000		41004.00	100	27.50		9 Mårgasira (ksh.).

TABLE A-Contd.

. Y.	Saka	1.0	C2	Fixtu	RES AO	CORI	DING TO THE
xpired.	expired.	A. D.	Class.	First Ārya-Siddhā	nta-		Sürya-Siddhänta.
1	2	3	16:	5			6
****	1465	1543-44	В	6 Bhādrapada (adh.)			5 Śrāvana (adh.).
4644 4659	1480	1558-59	C	21 Mar. (80), 2 Mon. 8 Kārttika (adh.) .		: 1	20 Mar. (79), 1 Sun.
4660	1481	1559-60	B	11 Mögha (ksh.) 12 Phälguna (adh.)		8 8	7 Āśvina (adh.).
4679	1500	1578-79	В	8 Kärttika (adh.) .	-	. '	7 Āśvina (adh.).
4682	1503	1581-82	0	6 Mar. (65), 2 Mon.	1000	9	5 Mar. (64), 1 Sun.
4689	1510	1588-89	A	31 "Hēmalamba"			30 " Durmukha."
4690	1511	1589-90	A	32 "Vilamba" .	2		31 " Hēmalamba,"
4691	1512	1590-91	A	33 "Vikārin" .	10		32 " Vilamba."
4692	1513	1591-92	A	34 "Sarvarin" .	*		33 " Vikārin."
4693	1514	1592-93	A	35 " Plava"	• 11		34 " Sărvarin."
4694	1515	1593-94	A	36 "Subhakrit" .			35 * Plava."
4695	1516	1594-95	A	37 "Söbhana" .	*		36 " Subhakrit."
4696	1517	1595-96	Λ	38 " Krodhin"			37 "Söbhana."
4697	1518	1596-97	Α.	39 " Viśvāvasu" .		34 J.	38 " Krôdhin."
4698	1519	1597-98	A	40 * Parabhava" .		570	39 "Viśvāvasu."
id.	id	id.	В	8 Kārttika (adh.) .			7 Asvina (adh.).
4699	1520	1598-99	A	41 " Plavanga" .	*	(0)	40 " Parabhava."
4700	1521	1599-1600	A	42 " Kilaka" .	12		41 " Plavanga." 42 " Kilaka."
4701	1522	1600-1	A	43 " Saumya" .		30	
4720	1541	1619-20	C	7 Mar. (66), 1 Sun.		•	6 Mar (65), 0 Sat
4731	1552	1630-31	C	4 Mar. (63), 5 Thur.	1	14	5 Mar. (64), 6 Fri.
4754	1575	1653-54	C	20 Mar. (79), 1 Sun.			19 Mar. (78), 0 Sat.
4757		1656-57	C	17 Mar. (77), 2 Mon.			16 Mar. (76), 1 Sun.
4773		1672-73	C	20 Mar. (80), 4 Wed.			19 Mar. (79), 3 Tues.
4774		1673-74	A	57 " Rudhirödgårin"			56 " Dundubhi."
4775		1674-75	A	58 " Raktāksha'' .	14	*	57 " Rudhirödgärin."
4776	1597	1675-76	A	59 " Krodhana" .	- 3	*	58 * Raktāksha."
4777	1598	1676-77	Α	60 "Kshaya" .			59 * Krödhana."
4778		1677-78	A	1 " Prabhava" .			60 " Kshaya."
4779		1678-79	A	2 " Vibhaya" .			1 " Prabhava."
4780	1601	1679-80	A	100			2 " Vibhava."
478	1602	1680-81	A	4 " Pramoda"		2	3 " Sukla."
478		1681-82	A	5 " Prajāpati" .		- 8	4 " Pramoda."
478	100000000000000000000000000000000000000	1682-83	A	6 " Angiras" .		2	5 " Prajāpati.'
478		1683-84	A	7 "Srimukha" .			6 " Angiras."
478	100000	1684-85		8 " Bhāva" .	*1		7 * Srimukha."
478	6 1607	1685-86	A	9 " Yuvan" .	4.00		8 " Bhāva."
480	The second of	1700-1	В	7 Áśvina (adh.) 11 Māgha (ksh.)	2		7 Āśvina (adh.).
480	2 1623	1701-2	В	1 Chaitra (adh.) .		1	Nil.
id.		id.	C	27 Feb. (58), 5 Thur.			29 Mar. (88), 0 Sat,
480	A 100 (Sec. 10)	1706-7	В	4 Āshādha (adh.) .			3 Jyeshtha (adh.).
481	9 1640	1718-10				- 14	21 Mar. (80), 6 Fri.
482		1725-26		4 Ashūdha (adh.) .		14	3 Jyështha (adh.)
*45	200	1757-5		22" Sarvadharin "			21 "Sarvaji ."
485		1758-5		23 " Virodhin " .	0 12		22 " Sarvadhārin."
486	A CAMPA	1759-60					23 " Virodhin."

TABLE A-Contd.

к. у.	Saka	A. D.	Class.	Fixtus	ES ACCO	RDING TO THE
expired.	expired.			First Ārya-Siddhānte	3.	Sörya-Siddhänta.
1	2	3	4	5		6
4861	1682	1660-61	A	25 "Khara" .		24 " Vikrita "
4862	1683	1761-62	A	26 " Nandana " .	2 12	25 "Khara"
4863	1684	1762-63	A	27 "Vijava"		26 " Nandana "
4864	1685	1763-64	A	28 " Jaya " .		27 " Vijava "
Do.	Do,	Do.	В	4 Āshādha (adh.)	7 .	3 Jyeshtha (adh.)
4865	1686	1764-65	A	29 " Manmatha " .	2 3	28 " Jaya "
4866	1687	1765-66	A	30 " Durmukha " .		29 " Manmatha "
4867	1688	1766-67	A	31 " Hēmalamba "	FT 8	30 " Durmukha "
4868	1689	1767-68	A	32 " Vilamba " .	P. 18	31 " Hēmalamba "
4869	1690	1768-69	A	33 "Vikārin" .	2 2	32 " Vilamba "
4870	1691	1769-70	A	34 "Sarvarin "		33 " Vikārin "
4871	1692	1770-71	A	35 " Plava "		34 "Sārvarin "
4872	1693	1771-72	A	36 "Subhakrit" .		35 " Plava "
4877	1698	1776-77	В	7 Asvina (adh.)		6 Bhādrapada (adn.)
4882	1703	1781-82	C	26 Mar. (85), 2Mon.		25 Mar. (84), 1 Sun.
4883	1704	1782 83	C	15 Mar. (74, 6 Fri.)		Mar. (73), 5 Thur.
4942	1763	1841-42	В	(7 Åsvina (adh.)) 11 Magha (ksh.)		7 Aśvina (adh.)
4943	1764	1842-43	В	1 Chaitra (adh.		Nil.
Do.	Do.	Do.	C	13 Mar. (72), 1 Sun.	1 4	11 Apr. (101), 2 Mon.
4944	1765	1843-44	A	49 "Rakshasa" .	w 1	48 " Ānanda "
Do,	Do.	Do.	C	1 Apr. (91), O Sat.		31 Mar. (90) 6 Fri.
4945	1766	1844-45	A	50 " Anala" .		49 "Rākshasa"
Do.	Do.	Do.	C	20 Mar. (80), 4 Wed		19 Mar. (79), 3 Tues,
4946	1767	1845-46	A	51 " Pingala." .		50 " Anala '
4947	1768	1846-47	A	52 "Kālayukta".	41 12	51 " Pingala "
4918	1769	1847-48	A	52 "Kālayukta" 53 "Siddhārthin" 54 "Raudra"		52 "Kālayukta"
4949	1770	1848-49	A	SO IN . A CHARGE CO	1 1	53 " Siddharthin "
4950	1771	1849-50	A	55 " Durmati " .		54 " Raudra "
4951	1772	1850-51	A	56 " Dundubhi " ,	2 3	55 " Durmati "
4952	1773	1851-52	A	57 " Rudhirödgarin "	\$1 F4	56 " Dundubhi "
4953	1774	1852-53	A	58 "Raktāksha".	21 (21	57 " Rudhirödgärin "
4954	1775	1853-54	A	59 "Krodhana" .		58 · Raktāksha "
4955	1776	1854-55	Α	60 "Kshaya"	3 3	59 " Krodhan "
4956	1777	1855-56	A	1" Prabhava" .		60 " Kshaya "
4957	1778	1856-57	C	2" Vibhava" .		1" Prabhaya "
4973	1794	1872-73	0	9Apr. (100), 3 Tues	701 07	8 Apr. (99), 2 Mon.

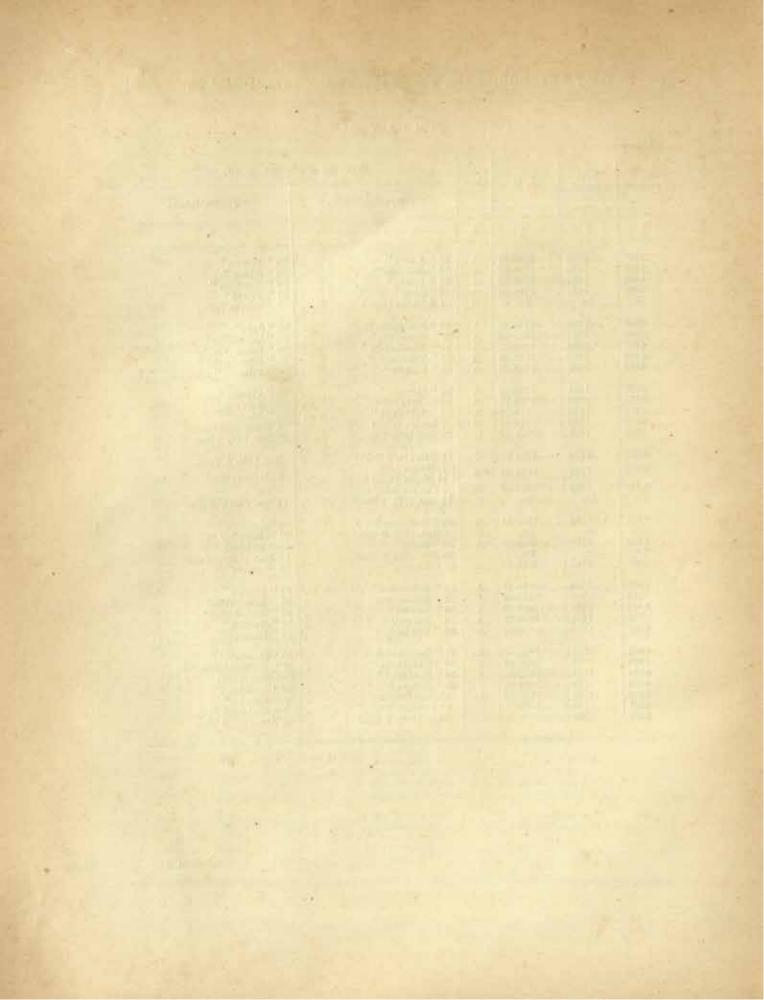


TABLE LXI.

NOTES.

Cols. 1 to 4.—The present Table states the concurrent years so as exactly to correspond with Table I of the "Indian Calendar" and in that respect to save trouble for those who have become accustomed to use that publication. The year usually quoted in inscriptions is the expired year, though sometimes the concurrent year is given; e.g., the year A.D. 899-900 corresponds to the concurrent years K. Y. 4001, Saka 821.

Col. 8.—All the entries are of intercalated (adhika) months, except those in italics, which are suppressed (kshaya) months.

A List of instances wherein important details the Arya and Sürya Siddhantas differ is given in Table A, pages 248-251.

It has not been thought necessary to include in this Table the years between A.D. 499 and 899. This paper concerns computation by the true motions of sun and moon, and it is practically certain that prior, at least, to the latter date all calculations for almanaes in India were made by mean planetary motions.

TABLE

GENERAL TABLE FOR CALCULATION

Conforming to Table I "Indian Calendar,"

Entries in italics in Column 7 shew where, in the Northern system, samvatsara
* = Leap-years of 366 days.

				Valorator.		and the same		1
	14			CONCU	RRENT Y	EAR.		
		crama.	ır year			JOVIAN S.	MVATSABA.	INTERCALATED (adhika) and SUPPRESSED
Kali.	Saka.	Chaitradi Vikrama.	Mēshādi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	(kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6	7	8
4001	822	957	306	74-75	899-900	53 Siddhārthin .	53 Siddhärthin	7
4002	823	958	307	75.76	*900-01	54 Raudra .	54 Raudra .	
4003	824	959	308	76-77	901-02	55 Durmati .	55 Durmati .	2 Valéakha
4004	825	960	309	77-78	902-03	56 Dundubhi .	56 Dundubhi .	
4005	826	961	310	78-79	903-04	57 Rudhirödgärin	57 Rudhirödgärin	6 Bhādrapada
4006	827	962	311	79-80	*904-05	58 Raktāksha .	58 Raktāksha .	STEE HEALT
4007	828	963	312	80-81	905-06	59 Krődhana .	50 Krēdhana† .	
4008	829	964	313	81-82	906-07	60 Kshaya .	1 Prabhava .	5 Srāvaņa .
4009	830	965	314	82-83	907-08	1 Prabhava .	2 Vibhava .	
4010	831	966	315	83-84	*908-09	2 Vibhava .	3 Śukla	
4011	832	967	316	84-85	909-10	3 Šukla	4 Pramöds .	3 Jyčehtha
4012	833	968	317	85-86	910-11	4 Pramôda .	5 Prajāpati .	***
4013	834	969	318	86-87	911-12	5 Prajāpati .	6 Angiras	7 Aivina 10 Pausha (ksh.)
4014	835	970	319	87-88	*912-13	6 Angiras .	7 Srimukha .	1 Chaitra
4015	836	971	320	88-89	913-14	7 Srimukha .	8 Bhāva	
4016	837	972	321	89-90	914-15	8 Bhāva	9 Yuvan	5 Sravanı
4017	838	973	322	90-91	915-16	9 Yuvan	10 Dhātri	***
4018	839	974	323	91-92	*916-17	10 Dhātri	11 Isvara	***
4019	840	975	324	92-93	917-18	11 Iśvara	12 Bahudhanya .	4 Åshādha .
4020	841	976	325	93-94	918-19	12 Bahudhānya	13 Pramāthin .	***
4021	842	977	326	94-95	919-20	13 Pramāthin	14 Vikrama	

^{† 60} Kehaya was suppressed in the north.

LXI.

BY THE FIRST ARYA-SIDDHANTA.

the columns being similarly numbered.

names of solar years differ from those given by followers of the Surya-Siddhanta.

Cols. 13, 19 .- Figures in brackets = number of civil days measured from January 1st.

				F THE	ENCEMENT O)MM	CC			
Kali.	WHICH	LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS).							LAR YEAR.	So
401	C.	b.	a.	Week- day.	Day and month, A.D.	16-	ne of Mësh kränt	true	Week- day.	Day and month, A.D.
1	25	24	23	20	19		17		14	13
4001	259-4537	196-5305	9939-8668	6 Fri	16 Mar. (75)	S. 30	M. 47	H. 13	5 Thur.	22 Mar. (81)
4003	228-6299	43-7653	9815-5502	3 Tues.	4 Mar. (64)	0	0	20	6 Fri	21 Mar. (81)
4003	200-5438	927-2917	29-8654	1 Sun	22 Feb. (53)	30	12	2	1 Sun	22 Mar. (81)
400	251-8535	863-2752	64-5051	0 Sat	13 Mar. (72)	0	25	8	2 Mon	22 Mar. (81)
400	223-7674	746-8017	278-8203	5 Thur.	3 Mar. (62)	30	37	14	3 Tues.	22 Mar. (81)
400	272-3393	646-4936	9974-8281	3 Tues.	20 Mar. (80)	0	50	20	4 Wed.	21 Mar. (81)
400	244-2533	530-0200	189-1433	1 Sun	10 Mar. (69)	30	2	3	6 Fri	22 Mar. (81)
400	213-4295	377-2548	64-8268	5 Thur.	27 Feb. (58)	0	15	9	0 Sat	22 Mar. (81)
400	262-0014	276-9467	9760-8345	3 Tues.	17 Mar. (76)	30	27	15	1 Sun	22 Mar. (81)
401	233-9153	160-4731	9975-1497	1 Sun.	6 Mar. (66)	0	40	1000	2 Mon	21 Mar. (81)
40	203-0914	7-7079	9850-8331	5 Thur.	23 Feb. (54)	30	52	3	4 Wed.	22 Mar. (81)
40	254-4011	943-6915	9885-4728	4 Wed.	14 Mar. (73)	0	5	10	- Indian	22 Mar. (81)
40	226-3151	827-2178	99-7880	2 Mon	4 Mar. (63)	30	17	1		22 Mar. (81)
40	198-2290	710-7442	314-1033	0 Sat	22 Feb. (53)	0	30	25	10000	21 Mar. (81)
40	246-8010	610-4362	10-1109	5 Thur.	11 Mar. (70)	30	42			22 Mar. (81)
1 40	215-9771	457-6710	9885-7943	2 Mon	28 Feb. (59)	0		10	Designation of	22 Mar. (81)
8 40	267-2868	393-6545	10131	1 Sun.	19 Mar. (78)			17	The second second	22 Mar. (81)
9 40	236-1269	240-8893	9796-1174	5 Thur.			in ni	23		21 Mar. (81)
9 40	208-3769	124-4158	10-4326	3 Tues.	- Contract Land			2.5	4 17 19 19 19 19 19 19 19 19 19 19 19 19 19	22 Mar. (81)
6 40	259 3866	60-3992	45-0722	2 Mon.	CHARLES WELL		3 30	1038		22 Mar. (81
8 40	228 1628	907-6340	9920-7556	6 Fri.				70.00	3 22	22 Mar. (81

TABLE

		ama.	year	-	5	JOVIAN SA	MVATSABA.	INTERCALATED (adhika) and
Kali,	Saka.	Chaitridi Vilcrama.	Meshādi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	SUPPRESSED (kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6	7	8
4022	843	978	327	95-96	*920-21	14 Vikrama .	15 Vrisha	2 Vaišākha
4023	841	979	328	96-97	921-22	15 Vrisha	16 Chitrabhanu .	***
4024	845	980	329	97-98	922-23	16 Chitrabhanu .	17 Subhānu .	6 Bhādrapada
4025	846	981	330	98-99	923-24	17 Subhānu .	18 Tāraņa	***
4026	847	982	331	99-100	*924-25	18 Tăraņa	19 Pärthiva .	
4027	848	983	332	100-01	925-26	19 Pārthiva .	20 Vyaya	4 Āshāḍha
4028	849	984	333	101-02	926-27	20 Vyaya	21 Sarvajit	
4029	850	985	334	102-03	927-28	21 Sarvajit	22 Sarvadhārin .	
4030	851	986	335	103-04	*928-29	22 Sarvadhārin .	23 Virôdhín .	3 Jyështha
4031	852	987	336	104-05	929-30	23 Virôdhin -	24 Vikrita	
4032	853	988	337	105-06	930-31	24 Vikrita	25 Khara	7 Asvina
4033	854	989	338	106-07	931-32	25 Khara	26 Nandana .	
4034	855	990	339	107-08	*932-33	26 Nandana .	27 Vijaya	***
4035	810	991	340	108-09	933-34	27 Vijaya	28 Jaya	5 Srāvaņa
4036	857	992	341	109-10	934-35	28 Jaya	29 Manmatha .	
4037	858	993	342	110-11	935-56	29 Manmatha .	30 Durmukha .	. 200
4038	859	994	343	111-12	*936-37	30 Durmukha .	31 Hēmalamba .	3 Jyështha
4031	860	995	344	112-13	937-38	31 Hemalamba .	32 Vilamba .	
4040	861	996	345	113-14	938-39	32 Vilamba .	33 Vikārin	
104	862	997	346	114-15	939-40	33 Vikārin	34 Sārvarin .	2 Vaišākha
4043	863	998	347	115-16	*940-41	34 Sārvarin .	35 Plava	(846))
4043	864	999	348	116-17	941-42	35 Plava	36 Subhakrit .	6 Bhadrapada
4044	865	1000	349	117-18	942-43	36 Subhakrit .	37 Sõbhana .	1997.5
404	866	1001	350	118-19	943-44	37 Šõbhana .	38 Krődhin ,	

LXI-Contd.

	F		IENCEMENT (-	-	-	
So	LAB YEAR.	F S Har	LUNI-SOLAB YE	AR (MEAN ST CHAITRA S	UKLA 1 END	VIL DAY ON	WHICH	Kali.
Day and nonth, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	a.	ō.	G.	
13	14	17	19	20	23	24	2.5	1
2 Mar. (82)	4 Wed.	H. M. S. 0 10 0	23 Feb. (54)	4 Wed.	135-0709	791-1625	200-7767	402
22 Mar. (81)	5 Thur.	6 22 30	13 Mar. (72)	3 Tues.	169-7105	727-1460	252-0864	402
22 Mar. (81)	6 Fri	12 35 0	2 Mar. (61)	0 Sat	45-3939	574-3808	221-2635	202
22 Mar. (81)	0 Sat	18 47 30	21 Mar. (80)	6 Fri	80-0335	510-3623	272-5722	402
22 Mar. (82)	2 Mon	1 0 0	9 Mar. (69)	3 Tues.	9955-7169	357-5972	241-7524	402
22 Mar. (81)	3 Tues.	7 12 30	26 Feb. (57)	0 Sat	9831-4003	204-8339	210-9246	402
2 Mar. (81)	4 Wed.	13 25 0	17 Mar. (76)	6 Fri	9866-0399	140-8154	262-2323	402
22 Mar. (81)	5 Thur.	19 37 30	7 Mar. (66)	4 Wel.	80-3551	24-3419	234-1482	402
22 Mar. (82)	0 Sat	1 50 0	24 Feb. (55)	1 Sun	9956-0385	871-5766	903-3243	403
22 Mar. (81)	1 Sun	8 2 30	14 Mar. (73)	0 Sat	9990-6782	807-5702	254-6340	403
22 Mar. (81)	2 Mon	14 15 0	4 Mar. (63)	5 Thur.	204-9934	691-0866	226-5480	403
22 Mar. (81)	3 Tues.	20 27 30	23 Mar. (82)	4 Wed.	239-6331	627-0701	277-8577	403
22 Mar. (82)	5 Thur.	2 40 0	11 Mar. (71)	1 Sun .	115-3164	474-3049	247-0339	400
22 Mar. (81)	6 Fri	8 52 30	28 Feb. (59)	5 Thur.	9990-9998	321-5397	216-2100	403
22 Mar. (81)	o Sat	15 5 0	19 Mar. (78)	4 Wed.	25-6394	257-8149	270-2575	403
22 Mar. (81)	1 Sun	21 17 30	8 Mar. (67)	1 Sun.	9901-3228	104-7580	236-6058	400
22 Mar. (82)	3 Tues.	3 30 0	26 Feb. (57)	6 Fri	115-6381	988-2845	208-6098	400
22 Mar. (81)	4 Wed.	9 42 30	16 Mar. (75)	5 Thur.	150-2777	924-2680	259-9195	400
22 Mar. (81)	5 Thur.	15 55 0	5 Mar. (64)	2 Mon	25-9611	771-5027	229-0957	40
22 Mar. (81)	Control of the last of the las	22 7 30	23 Feb. (54)	0 Sat	240-2763	655-0292	201-0096	40
22 Mar. (82)			100-00 Jan	5 Thur.	9936-2841	554-7211	240-5816	40
22 Mar. (81)	250	755 772 194	1 Mar. (60)	2 Mon	9811-9675	401-9560	218-7576	40
22 Mar. (81)	100.00	16 45 0	100 mm 10	1 Sun	9846-6072	337-9394	270-0674	40
22 Mar. (81)	Towns a	22 57 30	0.00 1000	5 Thur.	9722-3005	185-1742	239-9517	40
22 Mar. (82)	o Waterway	The state of the s		3 Tues.	9936-6057	68-7007	211-1575	40

TABLE

			3	CONCUR	RENT YE	EAR.			
Kali,	Saka.	Chaitradi Vikrama.	Mëshādi solar year in Bengal.	Kollam,	A.D.	Jovian Southern system.	SAI	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6		7	8
4047 4048 4049	868 869 870	1003 1004 1005	352 353 354	120-21 121-22 122-23	945-46 946-47 947-48	39 Viśvāvasu 40 Parābhava 41 Plavanga		40 Parabhava . 41 Plavanga . 42 Kilaka .	 3 Jyështha .
4050	871	1006	355	123-24	*948-49	42 Kilaka .	٠	43 Saumya .	444
4051	872	1007	356	124-25	949-50	43 Saumya	10	44 Sādhāraņa .	7 Aśvina .
4052	873	1008	357	125-26	950-51	44 Sådhärana		45 Virôdhakrit .	***
4053	100000	1009	358	126-27	951-52	45 Virodhakrit	121	46 Paridhävin .	***
4054	100000	1010	359	127-28	*952-53	46 Paridhāvin	6	47 Pramādin .	5 Śrāvaņa .
4055	September 1	1011	360	128-29	953-54	47 Pramādin	4	48 Ananda .	2
4056	27.00	1012	361	129-30	954-55	48 Ananda	5.3	49 Råkshasa .	0.00
4058		1013	362	130-31	955-56	49 Rākshasa	*	50 Anala	3 Jyështha .
4050	2000	1015	363	131-32	*956-57 957-58	50 Anala .		51 Pingala .	411
4066		1016	365	133-34	958-59	51 Pingala 52 Kalayukta		52 Kālayukta . 53 Siddhārthin .	1 2 Vaišākha
400		1017	366	134-35	959-60	53 Siddharthin		54 Raudra .	1
406	42 II (1901)	1018	I DECEMBER	135-36	*960-61	54 Raudra	Ċ	55 Durmati .	6 Bhādrapada
406	3 884	1019	1	136-37	961-62	55 Durmati		56 Dundubhi .	Tenanti II
406	4 885	1020	369	137-38	962-63	56 Dundubhi	5.0	57 Rudhirödgärin	***
406	5 886	1021	370	138-30	963-64	57 Rudhirödgå	rin	58 Raktāksha .	4 Āshādha
406	6 887	1022	371	139-40	*964-65	58 Raktāksha	-	59 Krödhana .	
406	7 888	1023	372	140-41	965-66	59 Krödhana		60 Kahaya .	***
406	8 889	1024	373	141-42	966-67	60 Kahaya		1 Prabhava .	- BERGE STONE
406	9 890	1025	374	142-43	967-68	1 Prabhava		2 Vibhava .	***
407	0 891	1026	375	143-44	*968-69	2 Vibhava		3 Sukla	7 Aśvina .
407	1 892	1027	376	144-45	969-70	3 Šukla .		4 Pramôda .	

LXI-Contd.

		COM	MENCEMENT (OF THE				
Se	OLAB YEAR.	*	LUNI-SOLAR YI		UNRISE OF C		wnton	Kali.
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a,	ь.	ė.	
13	14	17	19	20	23	24	25	1
22 Mar. (81)	0 Sat	H. M. S. 11 22 30	17 Mar. (76)	2 Mon	9972-2453	4-6841	262-4672	4047
22 Mar. (81)	1 Sun	17 35 0	7 Mar. (66)	0 Sat	185-5605	888-2106	234-3811	4048
22 Mar. (81)	2 Mon	23 47 30	24 Feb. (55)	4 Wed.	61-2440	735-4454	203-5584	4049
22 Mar. (82)	4 Wed.	6 0 0	14 Mar. (74)	3 Tues.	95-8836	671-4290	254-8669	4050
22 Mar. (81)	5 Thur.	12 12 30	3 Mar. (62)	0 Sat	9971-5669	518-6637	224-0431	405
22 Mar. (81)	6 Fri	18 25 0	22 Mar. (81)	6 Fri	6-2066	454-6473	275-3528	4053
23 Mar. (82)	1 Sun	0 37 30	11 Mar. (70)	3 Tues, .	9881-8899	301-8921	244-5290	4053
22 Mar. (82)	2 Mon	6 50 0	28 Feb. (59)	0 Sat	9757-5734	149-1168	213-7052	405
22 Mar. (81)	3 Tues.	13 2 30	18 Mar. (77)	6 Fri	9792-2130	85-1004	265-0148	4058
22 Mar. (81)	4 Wed.	19 15 0	8 Mar. (67)	4 Wed	6-5282	968-6268	236-9287	405
23 Mar. (82)	6 Fri	1 27 30	26 Feb. (57)	2 Mon	220-8435	852-1532	208-8427	405
22 Mar. (82)	0 Sat	7 40 0	16 Mar. (76)	1 Sun	255-4831	788-1367	260-1524	405
22 Mar. (81)	1 Sun	13 52 30	5 Mar. (64)	5 Thur.	131-1665	635-3715	229-3286	405
22 Mar. (81)	2 Mon	20 5 0	22 Feb. (53)	2 Mon	6-8499	482-6064	198-5047	406
23 Mar. (82)	4 Wed.	2 17 30	13 Mar. (72)	1 Sun	41-4895	418-5898	249-8145	406
22 Mar. (82)	5 Thur.	8 30 0	1 Mar. (61)	5 Thur.	9917-1729	265-8247	218-9905	406
22 Mar. (81)	6 Fri	14 42 30	20 Mar. (79)	4 Wed.	9951-8125	201-8082	270-3003	406
22 Mar. (81)	0 Sat	20 55 0	9 Mar. (68)	1 Sun. ,	9827-4959	49-0429	239-4764	406
23 Mar. (82)	2 Mon	3 7 30	27 Feb. (58)	6 Fri	41-8112	932-5694	211-3904	406
22 Mar. (82)	3 Tues.	9 20 0	17 Mar. (77)	5 Thur.	75-4508	868-5529	262-7001	406
22 Mar. (81)	4 Wed.	15 32 30	7 Mar. (66)	3 Tues.	290-7660	752-0794	234 6440	406
22 Mar. (81)	5 Thur.	21 45 0	24 Feb. (55)	0 Sat	166-4494	599-3141	203 7901	406
23 Mar. (82)	0 Sat	3 57 30	15 Mar. (74)	6 Fri	201-0890	535-2977	255-0998	406
22 Mar. (82)	1 Sun.	10 10 0	3 Mar (63)	3 Tues.	76-7724	382-5385	224-2760	407
22 Mar. (81)	2 Mon	16 22 30	21 Mar. (80)	1 Sun	9772-7802	282-2243	272-8479	407

TABLE

-								
2.41		Brama.	dar year			JOVIAN SAI	CVATSARA.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR
Kali,	Saka.	Chaitradi Vikrama,	Mēshādi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	MONTHS (true).
1	2	3	3a	4	5	6 -	7	8
4072	893	1028	377	145-46	970-71	4 Pramôda .	5 Prajāpati .	
4073	894	1029	378	146-47	971-72	5 Prajāpati .	6 Angiras .	5 Srāvaņa .
4074	895	1030	379	147-48	*972-73	6 Angiras .	7 Srimukha .	
4075	896	1031	380	148-49	973-74	7 Śrimukha .	8 Bhāva	
4076	897	1032	381	149-50	974-75	8 Bhāva	9 Yuvan	4 Āshādha
4077	898	1033	382	150-51	975-76	9 Yuvan	10 Dhātri	***
4078	899	1034	383	151-52	*976-77	10 Dhatri	11 Tévara	3110
4079	900	1035	384	152-53	977-78	11 Iśvara	12 Bahudhānya .	1 Chaitra
4980	901	1036	385	153-54	978-79	12 Bahudhānya .	13 Pramathin .	
4081	902	1037	386	154-55	979-80	13 Pramāthin .	14 Vikrama .	6 Bhādrapada
4082	903	1038	387	155-56	+980-81	14 Vikrama .	15 Vrisha	
4083	904	1039	388	156-57	981-82	15 Vrisha	16 Chitrabhānu .	90.00
4084	905	1040	389	157-58	982-83	16 Chitrabhānn .	17 Subhānu .	4 Āshādha
4085	906	1041	390	158-59	083-84	17 Subhānu .	18 Tarapa .	THE W
4086	907	1042	391	159-60	*984-85	18 Tāraņa	19 Parthiva .	
4087	908	1043	392	160-61	985-86	19 Parthiva .	20 Vyaya	3 Jyeahtha
4099	909	1044	393	161-62	986-87	20 Vyaya . ,	21 Sarvajit .	I DET
4069	910	1045	394	162-63	987-88	21 Sarvajit .	22 Sarvadhārin .	7 Åsvina
4030	911	1046	395	163-64	*988-89	22 Sarvadhārin .	23 Virðdhin .	
4031	912	1047	396	164-65	989-90	23 Virôdhin .	24 Vikrita .	344
4092	913	1048	397	165-66	990-91	24 Vikrita	25 Khara† .	5 Śrāvaņa
4093	914	1049	398	165-67	991-92	25 Khars	27 Vijaya	7595
4094	915	1050	399	167-68	*992-93	26 Naudana .	28 Jaya	
4095	914	1051	400	168-69	993-94	27 Vijaya	29 Manmatha .	3 Jyeshtha

LXI-Contd.

		COMM	ENCEMENT O	F THE				
So	LAR YEAR.		LUNI-SOLAR YE		UNLA 1 END		wиден	Kali,
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a.	ь.	e.	
13	14	17	19	20	23	24	25	1
-		H. M. S.						
22 Mar. (81)	3 Tues.	22 35 0	11 Mar. (70)	6 Fri	9987-0954	165-7508	244-7619	4072
23 Mar. (82)	5 Thur.	4 47 30	28 Feb. (59)	3 Tues.	9862-7789	12-9856	213-9381	4073
22 Mar. (82)	6 Fri	11 0 0	18 Mar. (78)	2 Mon	9897-4185	948-9692	265-2477	4074
22 Mar. (81)	0 Sat	17 12 30	8 Mar. (67)	0 Sat	111-7337	832-4955	237-1616	4075
22 Mar. (81)	1 Sun	23 25 0	25 Feb. (56)	4 Wed	9987-4171	679-7304	206-3378	4076
23 Mar. (82)	3 Tues.	5 37 30	16 Mar. (75)	3 Tues.	22-0566	615-7139	257-6475	4077
22 Mar. (82)	4 Wed.	11 50 0	4 Mar. (64)	0 Sat	9897-7400	462-9486	226-8237	4078
22 Mar. (81)	5 Thur.	18 2 30	21 Feb. (52)	4 Wed.	9773-4234	310-1835	195-9998	4079
23 Mar. (82)	0 Sat	0 15 0	12 Mar. (71)	3 Tues.	9808-0631	246-1670	247-3096	4080
23 Mar. (82)	1 Sun	6 27 30	2 Mar. (61)	1 Sun	22:3783	129-6934	219-2234	4081
22 Mar. (82)	2 Mon	12 40 0	20 Mar. (80)	0 Sat	57-0179	65-6869	270-5332	4082
22 Mar. (81)	3 Tues.	18 52 30	9 Mar. (68)	4 Wed.	9932-7013	912-9117	239-7093	4083
23 Mar. (82)	5 Thur.	1 5 0	27 Feb. (58)	2 Mon	147-0166	796-4381	211-6233	4084
23 Mar. (82)	6 Fri	7 17 30	18 Mar. (77)	1 Sun.	181-6562	732-4216	262-9330	4083
22 Mar. (82)	0 Sat	13 30 0	6 Mar. (66)	5 Thur.	57-3396	579-6565	232-1091	4086
22 Mar. (81)	1 Sun	19 42 30	23 Feb. (54)	2 Mon	9933-0229	426-8913	201-2852	4087
23 Mar. (82)	3 Tues.	1 55 0	14 Mar. (73)	1 Sun	9967-6626	362-8648	252-5949	4088
23 Mar. (82)	4 Wed.	8 7 30	3 Mar. (62)	5 Thur.	9843-3460	210-1096	221-7711	4089
22 Mar. (82)	5 Thur.	14 20 0	21 Mar. (81)	4 Wed	9877-9856	146-0931	273-0808	409
22 Mar. (81)	6 Fri	20 32 30	11 Mar. (70)	2 Mon	92-3008	29-6195	244-9948	409
23 Mar. (82	1 Sun.	2 45 0	28 Feb. (59)	6 Fri	9967-9842	876-8543	214-1700	400
23 Mar (82	2 Mon.	. 8 57 30	19 Mar. (78)	5 Thur.	3-6239	812-8379	265-4806	409
22 Mar. (82	3 Tues.	15 10 0	8 Mar. (68)	3 Tues.	216-9391	696-3643	237-3945	409
22 Mar. (81) 4 Wed.	21 22 30	25 Feb. (56)	0 Sat.	92-6225	543-5991	206-5707	409
23 Mar. (82) 6 Fri.	. 3 35 0	16 Mar (76)	6 Fri.	127-2621	479-5826	257-8804	409

TABLE

-								
		krama.	ar year			JOVIAN SA	MVATSABA.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAS
Kali.	Saka.	Chaitradi Vikrama	Mēshādi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	MONTHS (true).
1	2	3	3a	4.	5	6	7	8
4097	918	1053	402	170-71	995-96	29 Manmatha .	31 Hēmalamba .	A Theodol 6
4098	919	1054	403	171-72	*996-97	30 Durmukha .	32 Vilamba .	1 Chaitra
4099	920	1055	404	172-73	997-98	31 Hēmalamba .	33 Vikārin	
4100	921	1056	405	173-74	998-99	32 Vilamba .	34 Sărvarin .	5 Sravaņa
4101	922	1057	406	174-75	999-1000	33 Vikārin	35 Plava	r Heaven I
4102	923	1058	407	175-76	*1000-01	34 Šārvarin .	36 Subhakrit .	144
4103	924	1059	408	176-77	1001-02	35 Plava	37 Söbhana .	4 Áshādha
4104	925	1060	409	177-78	1002-03	36 Subhakrit .	38 Krödhin .	(144)
4105	926	1061	410	178-79	1003-04	37 Sõbhana .	39 Višvāvasu .	-
4106	927	1062	411	179-80	*1004-05	38 Krödhin .	40 Pariibhava .	2 Vaišākha
4107	928	1063	412	180-81	1005-06	39 Višvāvasu .	41 Plavanga .	440
4108	929	1064	413	181-82	1006-07	40 Parábhava .	42 Kilaka	6 Bhādrapada
4109	930	1065	414	182-83	1007-08	41 Plavanga .	43 Saumya .	***
4110	931	1066	415	183-84	*1008-09	42 Kilaka	44 Sādhāraņa .	***
4111	932	1067	416	184-85	1009-10	43 Saumya	45 Virôdhakrit .	5 Srāvaņa
4112	933	1068	417	185-86	1010-11	44 Sādhāraņa .	46 Paridhāvin .	
4113	934	1069	418	186-87	1011-12	45 Virödhakrit .	47 Pramādin .	- i
4114	935	1070	419	187-88	*1012-13	46 Paridhāvin ,	48 Ānanda .	3 Jyeshtha
4115	936	1071	420	188-89	1013-14	47 Pramādin .	49 Rākshasa .	3000
4116	937	1072	421	189-90	1014-15	48 Ånanda .	50 Anala	944
4117	938	1073	422	190-91	1015-16	49 Rākshasa .	51 Piágala .	1 Chaitra
4118	939	1074	423	191-92	*1016-17	50 Anala	52 Kālayukta .	
4119	940	1075	424	192-93	1017-18	51 Pingala .	53 Siddhärthin .	5 Srāvaņa
4120	941	1076	425	193-94	1018-19	52 Kālayukta .	54 Raudra .	
4121	942	1077	426	194-95	1019-20	53 Siddhārthin .	55 Durmati	***

LXI-Contd.

		COMM	ENCEMENT O					
So	LAR YEAR.		LUNI-SOLAR YI	CHAITHA S	UNRISE OF C	IVIL DAY O	WHICH	Kali
Day and nonth, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a.	b.	6	
13	14	17	19	20	23	24	25	1
		H. M. S.						
23 Mar. (82)	0 Sat	9 47 30	5 Mar. (64)	3 Tues.	2-9455	326-8174	227-0566	409
22 Mar. (82)	1 Sun	16 0 0	22 Feb. (53)	0 Sat	9878-6289	174-0522	196-2327	409
22 Mar. (81)	2 Mon	22 12 30	12 Mar. (71)	6 Fri	9913-2685	110-0357	247-5424	409
23 Mar. (82)	4 Wed.	4 25 0	2 Mar. (61)	4 Wed.	127-5838	993-5622	219-4563	410
23 Mar. (82)	5 Thur.	10 37 30	21 Mar. (80)	3 Tues.	162-2234	929-5456	270-7661	410
22 Mar. (82)	6 Fri	16 50 0	9 Mar. (69)	0 Sat	37-9068	776-7804	239-9422	410
22 Mar. (81)	0 Sat.	232 30	27 Feb. (58)	5 Thur.	252-2221	660-3068	211-8562	410
23 Mar. (82)	2 Mon	5 15 0	17 Mar. (76)	3 Tues.	9948-2298	559-9987	260-4280	410
23 Mar. (82)	3 Tues.	11 27 30	6 Mar. (65)	0 Sat	9823-9122	407-2335	229-6042	410
22 Mar. (82)	4 Wed.	17 40 0	24 Feb. (55)	5 Thur.	38-2274	290-7599	201-5181	410
22 Mar. (81)	5 Thur.	23 52 30	13 Mar. (72)	3 Tues.	9734-2362	190-4518	250-0901	419
23 Mar. (82)	0 Sat	6 5 0	3 Mar. (62)	1 Sun	9948-5515	73-9783	222-0040	41
23 Mar. (82)	1 Sun.	12 17 30	22 Mar. (81)	0 Sat	9983-1911	9-9618	274-3137	41
22 Mar. (82)	2 Mon	200 200 20	11 Mar. (71)	5 Thur.	197-5063	893-4882	245-2277	41
23 Mar. (82)	Who are	0 42 30	28 Feb. (59)	2 Mon	73-1897	740-7230	214-4037	41
23 Mar. (82)	10-14-14-14-1	6 55 0	19 Mar. (78)	1 Sun	107-8294	676-7066	265-7135	41
23 Mar. (82)		13 7 30	8 Mar. (67)	5 Thur.	9983-5127	523-9413	234-8896	41
22 Mar. (82)	The state of the s		25 Feb. (56)	2 Mon	9859-1961	371-1761	204-0658	41
23 Mar. (82)	PERCUNIC Y		15 Mar. (74)	1 Sun	9893-8357	307-4513	258-1133	41
23 Mar. (82)		7 45 0	A TE CHANGE WA	5 Thur.	9769-5190	154-3945	224-5517	41
23 Mar. (82)	District of the last of the la	13 57 30	VIEW TO SET WHEN	3 Tues.	9983-8344	37-9209	196-5655	41
22 Mar. (82)	OF STREET	20 10 0		2 Mon	18:4740	973-9014	247-7753	41
23 Mar. (82		1	2 Mar. (61)	0 Sat	232-7892	857-4309	219-6892	41
23 Mar. (82			THE RESERVE AND ADDRESS OF THE PARTY OF THE	6 Fri	267-4288	793-4143	270-9990	41
23 Mar. (82		00 M		3 Tues,		640-6491	240-1751	41

TABLE

1	e i i		EAR.	RRENT Y	CONCU				
INTERCALATED (adhika) and SUFPRESSED (kshaya) LUNAI MONTES (true)	SVATSARA.	SAN	Jovian Southern	A.D.	Kollam.	i solar year	Chaiteadi Vilcrama.	Saka.	Kali.
	system.		system.			Mēshādi so in Bengal.	Chaitri		
- 8	7		6	5	4	3a	3	2	1
4 Ashādha	56 Dundubhi .		54 Raudra	*1020-21	195-96	427	1078	943	4122
***	57 Rudhirödgärin		55 Durmati	1021-22	196-97	428	1079	944	4123
	58 Raktāksha .		56 Dundubhi	1022-23	197-98	429	1080	945	4124
2 Vaišākha	59 Krôdhana .	1:	57 Rudhirödgårir	1023-24	198-99	430	1081	946	4125
1916	60 Kshaya .		58 Raktāksha	*1024-25	199-200	431	1082	947	4126
6 Bhādrapada	1 Prabhava .		59 Krôdhana	1025-26	200-01	432	1083	948	4127
	2 Vibhava .		60 Kshaya	1026-27	201-02	433	1084	949	4128
	3 Šukla		1 Prabhava	1027-28	202-03	434	1085	950	4129
5 Srāvaņa	4 Pramôda .	÷	2 Vibhava	*1028-29	203-04	435	1086	951	4130
	5 Prajāpati ,		3 Sukla .	1029-30	204-05	436	1087	952	4131
***	6 Angiras .		4 Pramôda	1030-31	205-06	437	1088	953	4132
3 Jyeshtha	7 Śrimukha .		5 Prajāpati	1031-32	206-07	438	1089	954	4133
	8 Bhāva		6 Angiras	*1032-33	207-08	439	1090	955	4134
	9 Yuvan		7 Śrimukha	1033-34	208-09	440	1091	956	4135
1 Chaitra	10 Dhátri	٠	8 Bhāva .	1034-35	209-10	441	1092	957	4136
1966	11 Isvara		9 Yuvan .	1035-36	210-11	442	1093	958	4337
5 Srāvaņa	12 Bahudhānya .		10 Dhătri .	*1036-37	211-12	443	1094	959	4138
	13 Pramathin .	•	11 Iśvara .	1037-38	212-13	444	1095	960	4139
	14 Vikrama .		12 Bahudhānya	1038-39	213-14	445	1096	961	4140
4 Āshāḍha	15 Vrisha		13 Pramathin	1039-40	214-15	446	1097	962	4141
- m- 6	16 Chitrabhānu .		14 Vikrama	*1040-41	215-16	447	1098	963	4142
an .	17 Subhānu .		15 Vrisha .	1041-42	216-17	448	1000	964	4143
2 Vaisākha	18 Tāraņa .		16 Chitrabhānu	1042-43	217-18	449	1100	965	4144
	19 Pärtbiva .		17 Subhānu	1043-44	218-19	450	1101	966	4145
6 Bhādrapada	20 Vyaya		18 Tāraņa .	*1044-45	219-20	451	1102	967	4146

LXI-Contd.

S	OLAR YEAR.		LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SURLA 1 ENDS).					Kal
Day and month, A.D.	Week- day.	Time of true Měsha- samkránti.	Day and month, A.D.	Week- day.	a.	b.	c.	
13	14	17	19	20	23	24	25	1
		H. M. S.			2072301	1000-0000		
22 Mar. (82)	3 Tues.	21 0 0	27 Feb. (58)	0 Sat	18-6956	487-8840	209-3513	415
23 Mar. (82)	5 Thur,	3 12 30	17 Mar. (76)	6 Fri	53-4352	423-8675	260-6609	412
23 Mar. (82)	6 Fri	9 25 0	6 Mar, (65)	3 Tues.	9929-1186	274-1022	229-8371	413
23 Mar. (82)	0 Sat	15 37 30	23 Feb. (54)	0 Sat	9804-8020	118-3371	199-0132	413
22 Mar. (82)	1 Sun	21 50 0	13 Mar. (73)	6 Fri	9839-4416	54-3206	250-3230	415
23 Mar. (82)	3 Tues.	4 2 30	3 Mar. (62)	4 Wed.	53-7569	937-8470	222-2369	415
23 Mar. (82)	4 Wed.	10 15 0	22 Mar. (81)	3 Tues.	88-3965	873-8305	273-5466	415
23 Mar. (82)	5 Thur.	16 27 30	12 Mar. (71)	1 Sun	302-7117	757-3570	245-4606	413
22 Mar. (82)	6 Fri	22 40 0	29 Feb. (60)	5 Thur	178-3951	604-5917	214-6366	413
23 Mar. (82)	I Sun	4 52 30	18 Mar. (77)	3 Tues.	9874-4029	504-2837	263-2086	413
23 Mar. (82)	2 Mon	11 5 0	7 Nar. (66)	0 Sat	9750-0862	351-5185	232-3847	413
23 Mar. (82)	3 Tues.	17 17 30	25 Feb. (56)	5 Thur.	9964-4015	235-0448	204-2987	413
22 Mar. (82)	4 Wed.	23 30 0	15 Mar. (75)	4 Wed.	9999-0411	171-0284	255-6084	413
23 Mar. (82)	6 Fri	5 42 30	4 Mar. (63)	1 Sun	9874-7245	18-2632	224 7846	41;
23 Mar. (82)	0 Sat	11 55 0	22 Feb. (53)	6 Fri	89-0398	901-7897	196-6984	413
23 Mar. (82)	1 Sun.	18 7 30	13 Mar. (72)	5 Thur.	123-6794	837-7731	248-0082	413
23 Mar. (83)	3 Tues.	0 20 0	1 Mar. (61)	2 Mon	9999-3628	685-0080	217-1843	413
23 Mar. (82)	4 Wed.	6 32 30	20 Mar. (79)	1 Sun	34-0024	620-9915	268-4941	413
23 Mar. (82)	5 Thur.	12 45 0	9 Mar. (68)	5 Thur.	9900-6858	468-2262	237-6702	414
23 Mar. (82)	6 Fri	18 57 30	26 Feb. (67)	2 Mon	9785-3692	315-4611	206-8464	41
23 ar. (83)	1 Sun.	1 10 0	16 Mar. (76)	1 Sun	9820-0088	251-4446	258-1561	41
23 Mar. (82)	2 Mon.	7 22 30	6 Mar. (65)	6 Fri	34-3241	134-9710	230-0700	41
23 Mar. (82)	3 Tues.	13 35 0	23 Feb. (54)	3 Tues.	9910-0075	982-2058	199-2461	41
23 Mar. (82)	4 Wed.	19 47 30	1 Mar. (73)	2 Mon	9944-6471	918-1893	250-5550	41
23 Mar. (83)	6 Fri	2 0 0	3 Mar. (63)	0 Sat.	158-9623	801-7158	222-4698	41

TABLE

				CONCUL	RENT YE	AR.		
		crams.	ar year			JOVIAN SAI	MVATSABA.	INTERCALATED (adhika) and SUPPRESSED
Kali.	£aka.	Chaitrādi Vikrams.	Mëshādi solar in Bengal	Kollam.	A.D.	Southern system.	Northern system.	(kshoya) LUNAU MONTHS (true).
1	2	3	3a	4	5	6	7	8
II.								
4147	968	1103	452	220-21	1045-46	19 Părthiva .	21 Sarvajit	
4148	969	1104	453	221-22	1046-47	20 Vyaya	22 Sarvadhārin .	***
4149	970	1105	454	222-23	1047-48	21 Sarvajit .	23 Virôdhin .	5 Śrávana .
4150	971	1106	455	223-24	*1048-49	22 Sarvadhārin .	24 Vikrita	
4151	972	1107	456	224-25	1049-50	23 Virōdhin .	25 Khara	1 22
4152		1108	457	225-26	1050-51	24 Vikrita	26 Nandana .	3 Jyështha .
4153	77.02	1109	458	226-27	1051-52	25 Khara	27 Vijaya	7 Asvina
4154	1000017	1110	459	227-28	*1052-53	26 Nandana .	28 Jaya . 2	10 Pausha (ksh)
4155		1111	460	228-29	1053-54	27 Vijaya	20 Manmatha .	1 Chaitra .
4150	1 1100	1112	461	229-30	1054-55	28 Jaya	30 Durmukha .	***
4157		1113	462	230-31	1055-56	29 Manmatha .	31 Hémalamba .	5 Śrāvaņa .
4158	90167	1114	463	231-32	*1056-57	30 Durmukha .	32 Vilamba .	***
4150		1115	464		1057-58	31 Hēmalamba .	33 Vikārin	*** '
416		1116	465	A STATISTICS	1058-59	32 Vilamba .	34 Sārvarin .	4 Āshāḍha .
416	1111000		466	-ANDRE	1059-60	33 Vikārin .	35 Playa	
416		1	467		*1060-61	34 Sārvarin .	36 Subhakrit .	
416	MATERIAL STREET		1000	Frank Street	1061-62	35 Plava	37 Sobhana .	2 Vaišākha .
416				The second	1062-63	36 Subhakrit .	38 Krödhin .	NAMES OF THE OWNER, WHEN THE O
416					1063-64	37 Söbhana .	39 Višvāvasu .	6 Bhādrapada
416	NATE OF STREET	30.00	-	all Sense of	*1064-65	38 Krödhin .	40 Parabhava .	***
416	No. of Contract	I I STATE OF THE	-	A PROPERTY.	1065-66	39 Visvāvasu .	41 Plavanga .	(448)
416		1000	3	- Control	1066-67	40 Parabhava .	42 Kilaka	4 Āshādha .
416	10 720	1125	474	242-43	1067-68	41 Plavanga .	43 Saumya .	****
417			470	243-44	*1068-69	42 Kilaka	44 Sādhāraņa .	
417	1 092	1127	476	244-45	1069-70	43 Saumya .	45 Virôdhakrit .	3 Jyčehtha .

LXI-Contd.

s	OLAR YEAR.		LUNI-SOLAR Y	LUNI-SOLAR YEAR (MEAN SUNEISE OF CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS).				
Day and nonth, A.D.	Week-day.	Time of true Mesha- samkranti,	Day and month, A.D.	Week- day.	a.	ь.	C.	
13	14	17	19	20	23	24	25	1
n 35 (00)	0.01	H. M. S. 8 12 30	00 M - (01)	a Tit	193-6019	737-6992	273-7795	41
3 Mar. (82)	0 Sat	THE RESIDENCE	22 Mar. (81)	6 Fri		584-9341	242-9557	41
3 Mar. (82)	1 Sun	14 25 0 20 37 30	11 Mar. (70)	3 Tues, 0 Sat.	69-2853 9944-9688	432-1689	212-1318	41
3 Mar. (82)	2 Mon 4 Wed.	2 50 0	28 Feb. (59) 18 Mar. (78)	6 Fri.	9979-6083	368-1524	263-4415	41
3 Mar. (83) 3 Mar. (82)	5 Thur.	9 2 30	7 Mar. (66)	3 Tues.	9855-2917	215-3872	232-6177	411
3 Mar. (82)	6 Fri.	15 15 0	25 Feb. (56)	1 Sun.	69-6069	98-9136	204-5316	41.
3 Mar. (82)	0 Sat	21 27 30	16 Mar. (75)	0 Sat	104-2465	34-8972	255-8413	41
3 Mar. (83)	2 Mon	3 40 0	4 Mar. (64)	4 Wed.	9979-9299	882-1319	225-0175	418
3 Mar. (82)	3 Tues.	9 52 30	22 Feb. (53)	2 Mon	194-2452	765-6584	196-9313	410
3 Mar. (82)	4 Wed.	16 5 0	13 Mar. (72)	1 Sun.	228-8848	701-6419	248-2411	410
3 Mar. (82)	5 Thur.	22 17 30	2 Mar. (61)	5 Thur.	104-5682	548-8767	217-4172	410
3 Mar. (83)	0 Sat	4 30 0	20 Mar. (80)	4 Wed.	139-2078	484-8602	268-7270	410
3 Mar. (82)	1 Sun	10 42 30	9 Mar. (68)	1 Sun	14-8912	332-0950	237-9031	412
3 Mar. (82)	2 Mon	16 55 0	26 Feb. (57)	5 Thur.	9890-5746	179-3299	207-0793	416
3 Mar. (82)	3 Tues.	23 7 30	17 Mar. (76)	4 Wed.	9925-2142	115-3133	258-3890	416
3 Mar. (83)	5 Thur.	5 20 0	6 Mar. (66)	2 Mon	139-5295	998-8397	230-3029	416
3 Mar. (82)	6 Fri	11 32 30	23 Feb. (54)	6 Fri	15-2129	846-0746	199-4790	416
3 Mar. (82)	0 Sat	17 45 0	14 Mar. (73)	5 Thur.	49-8525	782-0580	250-7888	416
3 Mar. (82)	1 Sun	23 57 30	4 Mar. (63)	3 Tues.	264-1677	665-5845	222-7027	416
Mar. (83)	3 Tues,	6 10 0	21 Mar. (81)	1 Sun	9960-1755	565-2764	271-2747	416
Mar. (82)	4 Wed.	12 22 30	10 Mar. (69)	5 Thur.	9835-8589	412-5112	240-5508	416
Mar. (82)	5 Thur.	18 35 0	28 Feb. (59)	3 Tues.	50-1742	296-0396	212-3647	416
Mar. (83)	0 Sat	0 47 30	18 Mar. (77)	1 Sun	9746-1819	195-7275	260-9366	416
Mar. (83)	1 Sun	7 0 0	7 Mar. (67)	6 Fri	9960-4972	79-2560	232-8506	417

				CONCE	RRENT Y	EAR.		
Kali,	Saka.	Chaitrādi Vikrama.	Möshādi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	Northern system.	INTERCALATED (adhika) and SUFFRESSED (kshaya) LUNAR MONTES (true).
1	2	3	3a	4:	5	6.	7	8
4172 4173 4174	993 994 995	1128 1129 1130	477 478 479	245-46 246-47 247-48	1070-71 1071-72 *1072-73	44 Sādhāraņa . 45 Virödhakrit . 46 Paridhāvin .	46 Paridhāvin . 47 Pramādin . 48 Ānanda .	7 Aśvina .
4175 4176 4177	996 997 998	1131 1132 1133	480 481 482	248-49 249-50 250-51	1073-74 1074-75 1075-76	47 Pramādin . 48 Ānanda . 49 Rākahasa .	49 Rākshasa	5 Srāvaņa
4178 4179 4180	999 1000 1001	1134 1135 1136	483 484 485	251-52 252-53 253-54	*1076-77 1077-78 1078-79	50 Anala 51 Pingala	53 Siddharthin . 54 Raudra 55 Durmati .	3 Jyčshtha .
4181 4182 4183 4184	1002 1003 1004 1005	1137 1138 1139 1140	486 487 488 489	254-55 255-56 256-57 257-58	1079-80 *1080-81 1081-82 1082-83	53 Siddhārthin . 54 Raudra . 55 Durmati . 56 Dundubhi .	56 Dundubhi 57 Rudhirödgärin 58 Raktāksha . 59 Krödhana .	2 Vaišākha
4185 4186 4187	1006 1007 1008	1 ₁₄₁ 1 ₁₄₂ 1 ₁₄₃	490 491 492	258-59 259-60 260-61	1083-84 *1084-85 1085-86	57 Rudhirödgárin 58 Raktáksha 59 Krödhana	60 Kshaya . 1 Prabhava . 2 Vibhava .	 4 Āshādha .
4188 4189 4190	1009 1010 1011	1 ₁₄₄ 1 ₁₄₅ 1 ₁₄₆	493 494 495	261-62 262-63 263-64	1086-87 1087-88 *1088-89	60 Kshaya . 1 Prabhaya . 2 Vibhaya .	3 Sukla 4 Pramēda 5 Praājpati .	3 Jyeshtha .
4191 4192 4193	1012 1013 1014	1 ₁₄₇ 1 ₁₄₈ 1 ₁₄₉	496 497 498	264-65 265-66 266-67	1089-90 1090-91 1091-92	. 3 Sukla 4 Pramoda	6 Angiras	7 Aévina
4194 4195 4196	1015 1016 1017	1150 1151 1152	499 500 501	267-68 268-69 269-70	*1092-93 1093-94 1094-95	6 Angiras	9 Yuvan	5 Śrāvaņa

† 52 Kälayokta was suppressed in the north.

LXI-Contd.

		COMM	ENCEMENT O	FTHE				
So	LAR YEAR.		LUNI-SOLAR YE	AR (MEAN 5 CHAITBA 6	UNRISE OF C	IVIL DAY ON	WHICH	Kali.
Day and month, A.D.	Week- day.	Time of true Měsha- samkrántí,	Day and month, A.D.	Week- day.	a.	ь.	c.	
13	14	17	19	20	23	24	25	-1
		н. м. s.						FILE
23 Mar. (82)	3 Tues.	19 25 0	16 Mar. (75)	3 Tues.	209-4520	898-7659	256-0742	4172
24 Mar. (83)	5 Thur.	1 37 30	5 Mar. (64)	0 Sat	85-1354	746-0007	225-2504	4173
23 Mar. (83)	6 Fri	7 50 0	23 Mar. (83)	6 Fri	119-7751	681-9843	276-5600	4174
23 Mar. (82)	0 Sat	14 2 30	12 Mar. (71)	3 Tues.	9995-4584	529-2190	245-7362	4175
23 Mar. (82)	1 Sun	20 15 0	1 Mar. (60)	0 Sat	9871-1418	376-4538	214-9123	4176
24 Mar. (83)	3 Täes.	2 27 30	20 Mar. (79)	6 Fri	9905-7814	312-4374	266-2221	4177
23 Mar. (83)	4 Wed.	8 40 0	8 Mar. (68)	3 Tues.	9781-4647	159-6721	235-3982	4178
23 Mar. (82)	5 Thur.	14 52 30	26 Feb. (57)	1 Sun .	9995-7800	43-1986	207-3122	4179
23 Mar. (82)	6 Fri	21 5 0	17 Mar. (76)	0 Sat	30-4197	979-1821	258-6219	4180
24 Mar. (83)	1 Sun	3 17 30	7 Mar. (66)	5 Thur.	244-7349	862-7084	230-5358	4181
23 Mar. (83)	2 Mon	9 30 0	24 Feb. (55)	2 Mon	120-4183	709-9433	199-7119	4182
23 Mar. (82)	3 Tues-	15 42 30	14 Mar. (73)	I Sun	155-0579	645-9268	251-0217	4183
23 Mar. (82)	4 Wed.	21 55 0	3 Mar. (62)	5 Thur.	30-7413	493-1616	220-1978	4184
24 Mar. (83)	6 Fri	4 7 30	22 Mar. (81)	4 Wed.	65-3809	429-1451	271-5066	4185
23 Mar. (83)	0 Sat	10 20 0	10 Mar. (70)	1 Sun	9941-0643	276-3799	240-6836	4186
23 Mar. (82)	1 Sun	16 32 30	27 Feb. (58)	5 Thur.	9816-7477	123-6148	209-8598	4187
23 Mar. (82)	2 Mon	22 45 0	18 Mar. (77)	4 Wed.	9851-3873	59-5982	261-1695	4185
24 Mar. (83)	4 Wed.	4 57 30	8 Mar. (67)	2 Mon	65-7026	943-1247	233-0835	4189
23 Mar. (83)	5 Thur.	11 10 0	26 Feb. (57)	0 Sat	280-0178	826-6511	204-9974	4190
23 Mar. (82)	6 Fri	17 22 30	16 Mar. (75)	6 Fri	314-6574	762-6346	256-3071	4191
23 Mar. (82)	0 Sat	23 35 0	5 Mar. (64)	3 Tues.	190-3408	608-8694	225-4833	4192
24 Mar. (83)	2 Mon	5 47 30	23 Mar. (82)	1 Sun	9886-3486	509-5613	274-0551	4193
23 Mar. (83	3 Tues.	12 0 0	11 Mar. (71)	5 Thur.	9762-0319	356-7962	243-2313	4194
23 Mar. (82	4 Wed.	18 12 30	1 Mar. (60)	3 Tues.	9976-3472	240-3225	215-1452	4195
24 Mar. (83) 6 Fri.	0 25 0	20 Mar, (79)	2 Mon	10-9868	176-3061	266-4550	4196

TABLE

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				CONCU	RRENT Y	SAR.		4
		rams.	r year	1	renti	Jovian Sa	MVATSARA.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR
Kali.	Saka.	Chaitradi Vikrama.	Mëshidi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	MONTHS (true).
1	2	3	3a	4	5	6	7	8
4197	1018	1153	502	270-71	1095-96	9 Yuvan	12 Bahudhānya .	T AS I
4198	1019	1154	503	271.72	*1096-97	10 Dhātri	13 Pramāthin .	3 Jyështha .
4199	1020	1155	504	272-73	1097-98	11 Iśvara	14 Vikrama .	PHP6
4200	1021	1156	505	273-74	1098-99	12 Bahudhānya .	15 Vrisha	100
4201	1022	1157	506	274-75	1099-1100	13 Pramathin .	16 Chitrabhanu .	2 Vaišākha .
4202	1023	1158	507	275-76	*1100-01	14 Vikrama .	17 Subhām .	***
4203	1024	1159	508	276-77	1101-02	15 Vrisha	18 Tăraņa	6 Bhādrapada
4204	1025	1160	500	277-78	1102-03	16 Chitrabhānu .	19 Pärthiva .	****
4205	1026	1161	510	278-79	1103-04	17 Subhānu .	20 Vyaya	
4206	1027	1162	511	279-80	*1104-05	18 Tāraņa	21 Sarvajit .	4 Åshädha .
4207	1028	1163	512	280-81	1105-06	19 Parthiva .	22 Sarvadhārin .	
4208	1029	1164	513	281-82	1106-07	20 Vyaya	23 Virôdhin .	
4209	1030	1165	514	282-83	1107-08	21 Sarvajit .	24 Vikrita	3 Jyeshtha .
4210	1031	1166	515	283-84	*1108-09	22 Sarvadhārin .	25 Khara	
4211	1032	1167	516	284-85	1109-10	23 Virödhin .	26 Nandana .	7 Āśvina .
4212	1033	1168	517	285-86	1110-11	24 Vikrita	27 Vijaya	4991
4213	1034	1169	518	286-87	1111-12	25 Khara	28 Jaya	
4214	1035	1170	519	287-88	*1112-13	26 Nandana -	29 Manmatha .	5 Śrāvaņa .
4215	1036	1171	520	288-89	1113-14	27 Vijaya	30 Durmukha ,	
4216	1037	1172	521	289-90	1114-15	28 Jaya	31 Hémalamba .	1. 2.2001
4217	1038	1173	522	290-91	1115-16	29 Manmatha .	32 Vilamba	3 Jyështha .
4218	1039	1174	523	291-92	*1116-17	30 Durmukha .	33 Vikārin	***
4219	1040	1175	524	292-93	1117-18	31 Hémalamba .	34 Sārvarin .	200000000000000000000000000000000000000
422	1041	1176	525	293-94	1118-19	32 Vilamba .	35 Plava	1 Chaitra .
422	1 1042	1177	526	294-95	1119-20	33 Vikārin .	36 Subhakrit .	***

LXI-Contd.

		70		FTHE	ENCEMENT O	COMM		
Kali	(wніси	IVIL DAY ON	NRISE OF C	IAR (MEAN S CHAITRA SU	LUNI-SOLAR YI		LAR YEAR,	Son
	ď	ь.	a.	Week-day,	Day and month, A.D.	Time of true Mösha- samkränti.	Week- day.	Day and month, A.D.
1	25	24	23	20	19	17	14	13
419	235-6311	23-5409	9886-6702	6 Fri	9 Mar. (68)	H. M. S. 6 37 30	0 Sat	24 Mar. (83)
419	207-5451	907-0673	100-9855	4 Wed.	27 Feb. (58)	12 50 0	1 Sun	23 Mar. (83)
419	258-8547	843-0508	135-6251	3 Tues.	17 Mar. (76)	19 2 30	2 Mon	23 Mar. (82)
420	227-9300	690-2856	11-3085	0 Sat	6 Mar. (65)	1 15 0	4 Wed.	24 Mar. (83)
420	199-9448	573-8121	225-6237	5 Thur.	24 Feb. (55)	7 27 30	5 Thur.	24 Mar. (83)
420	248-5168	473-5040	9921-6314	3 Tues.	13 Mar. (73)	13 40 0	6 Fri	23 Mar. (83)
420	217-6929	320-7388	9767-3148	0 Sat	2 Mar. (61)	19 52 30	0 Sat	23 Mar. (82)
420	269-0026	256-7233	9831-9544	6 Fri	21 Mar. (80)	2 5 0	2 Mon	24 Mar. (83)
420	240-9165	140-2487	46-2697	4 Wed.	11 Mar. (70)	8 17 30	3 Tues.	24 Mar. (83)
420	216-0927	987-4835	9921-9531	1 Sun	28 Feb. (59)	14 30 0	4 Wed.	23 Mar. (83)
420	261-4024	923-4670	9956-5927	0 Sat	18 Mar. (77)	20 42 30	5 Thur	23 Mar. (82)
42	233-3163	806-9935	170-9080	5 Thur.	8 Mar. (67)	2 55 0	0 Sat	24 Mar. (83)
42	202-4925	654-2283	46-5913	2 Mon	25- Feb. (56)	9 7 30	1 Sun	24 Mar. (83)
42	253-8022	590-2118	81-2310	1 Sun	15 Mar. (75)	15 20 0	2 Mon	23 Mar. (83)
42	222-9783	437-4466	9956-9143	5 Thur.	4 Mar. (63)	21 32 30	3 Tues.	23 Mar. (82)
42	274-2880	373-4301	9991-5540	4 Wed	23 Mar. (82)	3 45 0	5 Thur.	24 Mar. (83)
42	243-4642	220-6649	9867-2374	1 Sun	12 Mar. (71)	9 57 30	6 Fri	24 Mar. (83)
42	215-3781	104-1913	81-5526	6 Fri	1 Mar. (61)	16 10 0	0 Sat	23 Mar. (83)
42	266-6879	40-1749	116-1922	5 Thur.	20 Mar. (79)	22 22 30	201000	23 Mar. (82)
42	235-8740	887-4007	9991-8755	2 Mon.	V-24-11-14-24	4 35 0	TANK STANKS	24 Mar. (83)
42	207-7776	770-9361	206-1909	0 Sat	Deliver a section	10 47 30	The sale ray	24 Mar. (83)
42	259-0866	706-9196	240-8305	6 Fri	Sale Carlos	17 0 0	A STATE OF THE STA	23 Mar. (83)
8 45	228-263	554-1544	116-5138	3 Tues.		The state of the state of	. Language and a	23 Mar. (82)
2 45	197-439	401-3892	9992-1972	0 Sat	Personal Space			24 Mar. (83)
7 42	248-749	337-3727	26-8368	6 Fri	14 Mar. (73)		PERSON I	24 Mar. (83)

TABLE

-				CONCU	JRRENT Y	ZEAR.		
		krama.	ar year		H.	Jovian S	AMVATSARA.	INTERCALATED (adhika) and SUPPRESSED
Kali.	Saka.	Chaitradi Vikrama,	Mčabādi solar in Bengal.	Kollam.	A,D.	Southern system,	Northern system.	(kshaya) Lunan Months (true).
1	2	3	30	4.	5	6	7	8
4222	1043	, ima	-00	205 02				
	Catalanta	1178	527	295-96	*1120-21	34 Sārvarin ,	37 Söbhana .	6 Bhidrapada
4223	1044	1179	528	296-97	1121-22	35 Plava	38 Krödhin ,	772
4224	1045	1180	529	297-98	1122-23	36 Subhakrit	39 Viśvāvasu .	
4225	1046	1181	530	298-99	1123-24	37 Söbhana .	40 Parābhava ,	4 Āshādha .
4226	1047	1182	531	299-300	West the	38 Krödhin .	41 Plavanga .	1000
4227	1048	1183	532	300-01	1125-26	39 Višvāvasu ,	42 Kilaka	-910
4228	1049	1184	533	301-02	1126-27	40 Parabhava ,	43 Saumya .	3 Jyështha .
4229	1050	1185	534	302-03	1127-28	41 Plavanga .	44 Sådhårana ,	
4230	1051	1186	535	303-04	*1128-29	42 Kilaka	45 Virodhakrit .	7 Āśvina .
4231	1052	1187	536	304-05	1129-30	43 Saumya .	46 Paridhāvin .	324
4232	1053	1188	537	305-06	1130-31	44 Sādhāraņa .	47 Pramādin .	***
4233	1054	1189	538	306-07	1131-32	45 Virôdhakṛit .	48 Ānanda .	5 Srāvaņa .
4234	1055	1190	539	307-08	*1132-33	46 Paridhāvin .	49 Rākshasa .	710
4235	1056	1191	540	308-09	1133-34	47 Pramādin .	50 Anala	2
4236	1057	1192	541	309-10	1134-35	48 Ānanda .	51 Pingala	3 Jyështha .
4237	1058	1193	542	310-11	1135-36	49 Rākshasa .	52 Kālayukta .	
4238	1059	1194	543	311-12	*1136-37	50 Anala	53 Siddhärthin .	***
4239	1060	1195	544	312-13	1137-38	51 Pingala .	54 Raudra .	1 Chaitra .
4240	1061	1196	545	313-14	1138-39	52 Kālayukta .	55 Durmati .	
4211	1062	1197	546	314-15	1139-40	53 Siddharthin .	56 Dandubhi .	5 Śrāvaņa
4242	1063	1198	547	315-16	*1140-41	54 Raudra .	57 Rudhirödgårin	7.00
4243	1064	1199	548	316-17	1141-42	55 Durmati .	58 Raktāksha .	***
4244	1065	1200	549	317-18	1142-43	56 Dandubbi .	59 Krödhens .	4 Åshådha
4245	1066	1201	550	318-19	1143-44	57 Rudhirō-Igārin	60 Kshaya	411
1246	1067	1202	551	319-20	*1144-45	58 Rektähsha .	1 Prabhava .	I SECURE S
		-	_23	No. Beer		Dec 1 of 2010 that I	CONTRACTOR OF	***

LXI-Contd.

s	OLAB YEAR.		Luni-solar		SUNRISE OF KLA 1 END		ON WHICH	Kali
Day and month, A.D.	Week- day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week- day.	a.	ь.	c.	
13	14	17	19	20	23	24	25	1
		H. M. S.						
23 Mar. (83)	3 Tues.	17 50 0	2 Mar. (62)	5 Tues.	9902-5202	184-6076	217-9258	4222
24 Mar. (83)	5 Thur.	0 2 30	21 Mar. (80)	2 Mon	9937-1598	120-5911	269-2355	4223
24 Mar. (83)	6 Fri	6 15 0	11 Mar. (70)	0 Sat	151-4751	4-1174	241-1494	4224
24 Mar. (83)	0 Sat	12 27 30	28 Feb. (59)	4 Wed.	27-1585	851-3523	210-3256	4225
23 Mar. (83)	1 Sun	18 40 0	18 Mar. (78)	3 Tues.	61-7981	787-3358	261-6353	4226
24 Mar. (83)	3 Tues.	0 52 30	8 Mar. (67)	1 Sun	276-1134	670-8622	233-5493	4227
24 Mar. (83)	4 Wed.	7 5 0	25 Feb. (56)	5 Thur.	151-7967	518-0970	202-7254	4228
24 Mar. (83)	5 Thur.	13 17 30	15 Mar. (74)	3 Tues.	9847-8045	416-7889	251-2974	4229
23 Mar. (83)	6 Fri	19 30 0	3 Mar. (63)	0 Sat	9723-4879	265-0237	220-4734	4230
24 Mar. (83)	1 Sun. ,	1 42 30	22 Mar. (81)	6 Fri	9758-1275	201-0072	271-7832	4231
24 Mar. (83)	2 Mon	7 55 0	12 Mar. (71)	4 Wed.	9972-4428	84-5337	243-7071	4232
24 Mar. (83)	3 Tues.	14 7 30	2 Mar. (61)	2 Mon	186-7580	968-0600	215-6120	4233
23 Mar. (83)	4 Wed.	20 20 0	20 Mar. (80)	I Sun	221-3976	904-0436	266-9208	4234
24 Mar. (83)	6 Fri	2 32 30	9 Mar. (68)	5 Thur.	97-0810	751-2784	236-0969	4235
24 Mar. (83)	0 Sat	8 45 0	26 Feb. (57)	2 Mon .	9972-7644	598-5132	205-2730	4236
24 Mar. (83)	1 Sun	14 57 30	17 Mar. (76)	1 Sun	7-4040	534-4967	256-5727	4237
23 Mar. (83)	2 Mon	21 10 0	5 Mar. (65)	5 Thur.	9883-0874	381-7315	225-7589	4238
24 Mar. (83)	4 Wed.	3 22 30	22 Feb. (53)	2 Mon	9758-7708	228-9664	194-9350	4239
24 Mar. (83)	5 Thur.	9 35 0	13 Mar. (72)	1 Sun	9793-4104	184-9498	246-2448	4240
4 Mar. (83)	6 Fri	15 47 30	3 Mar. (62)	6 Fri	7-7257	48-4763	218-1587	4241
3 Mar. (83)	0 Sat	22 0 0	21 Mar. (81)	5 Thur.	42-3653	984-4598	269-4685	4242
14 Mar. (83)	2 Mon	4 12 30	11 Mar. (70)	3 Tues.	256-6806	867-9862	241-3823	4243
4 Mar. (83)	3 Tues.	10 25 0	28 Feb. (59)	0 Sat	132-3640	715-2210	210-5585	4244
4 Mar (83)	4 Wed.	16_ 37 30	19 Mar. (78)	6 Fri	167-0036	651-2045	261-9852	4245
3 Mar. (83)	5 Thur.	22 50 0	2 Mar. (67)	3 Tues.	42-6869	498-4393	231-0444	4246

TABLE

				CONCUB	RENT YE	AR.		
		ilcrama.	solar year			JOVIAN SAN	VATSARA.	INTERCALATED (adhika) and SUPPRESSED
Kali.	Saka.	Chaitradi Vilcrama.	Mčshādi so in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	(kshoya) Lunan Months (true).
1	2	3	3a	4	5	. 6	7	8
4247	1068	1203	552	320-21	1145-46	59 Krōdhana .	2 Vibhava	2 Vaišākha .
4248	1069	1204	553	321-22	1146-47	60 Kshaya	3 Sukla	
4249	1070	1205	554	322-23	1147-48	I Prabhava	4 Pramôda	6 Bhādrapada
4250	Water	1206	555	323-24	*1148-49	2 Vibhava	5 Prajápati .	***
4251	1072	1207	556	324-25	1149-50	3 Sukla	6 Angiras .	400
4252	- Joseph	1208	557	325-26	1150-51	4 Pramôda	7 Srimukha .	5 Srāvana
4253	1074	1209	558	326-27	1151-52	5 Prajāpati .	8 Bhāva	***
4254	1073	1210	559	327-28	*1152-53	6 Angiras .	9 Yuvan	***
4255	1076	1211	560	328-29	1153-54	7 Srimukha .	10 Dhātri	3 Jyeshtha
4256	1077	1212	561	329-30	1154-55	8 Bhāva	11 Iśvara	
4257	1078	1213	562	330-31	1155-56	9 Yuvan	12 Bahudhānya .	
4258	8 1070	1214	563	331-32	*1156-57	10 Dhātri	13 Pramāthin .	1 Chaitra
4259	9 1080	1215	564	332-33	1157-58	11 Iśvara	14 Vikrama .	
426	0 1081	1216	565	333-34	1158-59	12 Bahudhānya .	15 Vrisha	5 Śrāvaņa
426	1 1082	1217	566	334-35	1159-60	13 Pramāthin .	16 Chitrabhanu .	2411
426	2 1083	1218	567	335-36	*1160-61	14 Vikrama .	17 Subhānu† .	
426	3 1084	1219	568	336-37	1161-62	15 Vrisha	19 Pārthioa .	4 Āshādha
426	4 1085	1220	569	337-38	1162-63	16 Chitrabham .	20 Vyaya	
426	1086	1221	570	338-39	1163-64	17 Subhānu .	21 Sarvajit .	
426	1087	1222	571	339-40	*1164-65	18 Tāraņa	22 Sarvadharin .	2 Vaišākba
426	1088	1222	572	340-41	1165-66	19 Pärthiva .	23 Virödhin .	
420	1081	1224	573	341-42	1166-67	20 Vyaya	24 Vikrita	6 Bhadrapada
426	1090	1227	574	342-43	1167-68	21 Sarvajit .	25 Khera	anc.
\$27	0 10°	1226	570	343 44	*1168-69	22 Sarvadhārin .	20 Kandan) .	
427	1 109	1323	576	344-45	1169-70	23 Virôdhin .	27 Viisva	5 Śrāvaņa

^{† 18} Taraga was suppressed in the north

LXI-Contd.

Kali.	LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS).						OLAR YEAR	S
	Ć.	Ď.	a.	Week-day.	Day and month, A.D.	Time of true Mësha- samkranti.	Week- day.	Day and month, A.D.
1	25	24	23	20	19	17.	14	13
						H. M. S.		Section 1
4247	200-2205	345-6741	9918-3703	0 Sat	24 Feb. (55)	5 2 30	0 Sat	24 Mar, (83)
4248	251-4803	281-6576	9953-0099	6 Fri	15 Mar. (74)	11 15 0	1 Sun	24 Mar. (83)
4249	220-7063	128-8925	9828-693#	3 Tues.	4 Mar. (63)	17 27 90	2 Mon	2: Ma, (83)
4250	271-2161	64-8760	9863-3326	2 Mon	22 Mar, (82)	23 40 0	3 Tues.	23 Ma (83)
4251	243-9300	948-4024	77-6481	0 Sat	12 Ma., (71)	5 52 30	5 Thur.	24 Mar. (83)
4252	218439	831-9288	291-9634	5 Thur.	2 Mar. (61)	12 5 0	6 Fri	24 Mar. (83)
4253	267-1537	767-9126	326-6030	4 Wed.	21 Mar. (80)	18 17 30	0 Sat	24 Mar. (83)
4254	236-3298	615-1471	202-2864	1 Sun	9 Mar. (69) .	0 30 0	2 Mon	24 Mar. (84)
4255	205-5071	462-3819	77-9698	5 Thur.	26 Feb. (57)	6 42 30	3 Tues.	24 Mar. (83)
4256	254-0778	362-0739	9773-9776	3 Tues.	16 Mar. (75)	12 55 0	4 Wed.	24 Mar. (83)
4257	225-9918	245-6002	9988-2928	1 Sun	6 Mar. (65)	19 7 30	5 Thur.	24 Mar. (83)
4258	195-1679	92-8351	9863-9762	5 Thur.	23 Feb. (54)	1 20 0	0 Sat	24 Mar. (84)
4259	246-4777	29-8186	9899-0158	4 Wed.	13 Mar. (72)	7 32 30	1 Sun	24 Mar. (83)
4260	218-3916	912-3451	112-9311	2 Mon	3 Mar. (62)	13 45 0	2 Mon	24 Mar. (83)
4261	269-7014	848-3285	147-5707	1 Sun.	22 Mar. (81)	19 57 30	3 Tues.	24 Mar. (83)
4262	238-8774	695-5633	23-2541	5 Thur.	10 Mar. (70)	2 10 0	5 Thur.	24 Mar. (84)
4263	208-0536	542-7982	9899-3375	2 Mon	27 Feb. (58)	8 22 30	6 Fri	24 Mar. (83)
4264	259-3633	478-7816	9933-5672	1 Sun	18 Mar. (77)	14 35 0	0 Sat	24 Mar. (83)
4285	228-5395	326-0164	9809-2605	5 Thur.	7 Mar. (66)	20 47 30	1 Sun. ,	24 Mar. (83)
4266	200-4534	209-5429	23-5758	3 Toes.	25 Feb. (56)	3 0 0	3 Tues	24 Mar. (84)
4267	251-7632	145-5264	58-2354	2 Mon.	15 Mar. (74)	9 12 30	4 Wed.	24 Mar. (83)
4268	220-0392	992-7612	9933-8988	6 Fri	4 Mar. (63)	15 25 0	5 Thur.	24 Mar. (83)
1909	272-2489	928-7447	9968-5284	5 Thur.	23 Mar. (82)	21 37 30	6 Fri	24 Mar. (83)
	TRACECO	812-2712	18248537	3 Tues	12 Mar. (72)	3 50 0	1 Sun	24 Mar. (84)
4275	213-2391	619-5059	58 5371	0 Sat	1 Mar. (60)	10 2 30	2 Mon	24 Mar. (83)

TABLE

				CONCU	RRENT Y	EAR.		
Kali.	Saka.	Chaitrādi Vikrama.	Mëshadi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	MVATSARA. Northern system.	Intercalated (adhika) and suppressed (kshaya) Lunar Months (true).
							AND AND ADDRESS OF THE PARTY OF	
1	2	3	34	4	5	6	7	8
1272	1003	1228	577	345-46	1170-71	24 Vikrita	28 Jaya	
1273	1094	1229	578	346-47	1171-72	25 Khara	29 Manmatha .	***
4274	1095	1230	579	347-48	*1172-73	26 Nandana .	30 Durmukha .	3 Jyështha .
4275	1096	1231	580	348-49	1173-74	27 Vijaya	31 Hēmalamba .	
4276	1097	1232	581	349-50	1174-75	28 Jaya	32 Vilamba .	70
4277	1098	1233	582	350-51	1175-76	29 Manmatha .	33 Vikārin	1 Chaitra .
4278	1099	1234	583	351-52	*1176-77	30 Durmukha .	34 Sārvarin .	***
4279	1100	1235	584	352-53	1177-78	31 Hēmalamba .	35 Plava	5 Srāvaņa
4280	1101	1236	585	353-54	1178-79	32 Vilamba .	36 Subhakrit .	***
4281	1102	1237	586	354-55	1179-80	33 Vikārin .	37 Sõbhana .	***
4282	1103	1238	587	355-56	*1180-81	34 Šārvarin .	38 Krödhin .	4 Āshādha
4283	1104	1239	588	356-57	1181-82	35 Plava	39 Viśvāvasu .	
4284	1105	1240	589	357-58	1182-83	36 Subhakrit .	40 Parabhava .	***
4285	1106	1241	590	358-59	1183-84	37 Sõbhana .	41 Plavanga .	2 Vaišākha
4286	1107	1242	591	359-60	*1184-85	38 Krödhin .	42 Kilaka	
4287	1108	1243	592	360-61	1185-86	39 Viávāvasu ,	43 Saumya .	6 Bhādrapada
4288	1109	1244	592	361-62	1186-87	40 Parabhava .	44 Sādhāraņa .	
4289	1110	1245	594	362-63	1187-88	41 Plavanga .	45 Virödhakrit .	1440
\$290	ımı	1246	595	363-64	*1188-89	42 Kilaka	46 Paridhāvin .	5 Śrāvaņa .
4291	1112	1247	596	364-65	1189-90	43 Saumya	47 Pramādin .	1944
4292	1113	1248	597	365-66	1190-91	44 Sādhāraņa .	48 Ānanda .	(00) (0
4293	1114	1240	598	368-67	1191-92	45 Virôdhakṛit .	49 Rākshasa .	3 Jyështha .
4294	1115	1250	599	287-68	*1192-93	46 Paridhāvin .	50 Anala	***
4295	1116	1251	600	368-69	1193-94	47 Pramādin .	51 Pińgala {	7 Aśvina 10 Pawsha (ksh.)
4296	1117	1252	601	369-70	1194-95	48 Ānanda .	52 Kālayukta .	1 Chaitra

[.] Tāraņa was suppressed in the north.

LXI-Contd.

							water	
	SOLAR YEAR.		LUNI-SOLAR YI		UKLA 1 ENI		WHICH	Kali.
y of h, A.D.	Week- day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week- day.	a.	b.	ć.	
13	14	17	19	20	23	24	25	1
ar. (83)	3 Tues.	H. M. S. 16 15 0	20 Mar. (79)	6 Fri	93-1767	595-4895	264-6488	4275
ar. (83)	4 Wed.	22 27 30	9 Mar. (68)	3 Tues.	9968-8601	442-7243	233-8250	4273
ar. (84)	6 Fri	4 40 0	26 Feb. (57)	0 Sat	9844-5534	289-9591	203-0010	4274
far. (83	0 Sat	10 52 30	16 Mar. (75)	6 Fri	9879-1831	225-9426	254-3107	4275
Inr. (83	1 Sun	17 5 0	6 Mar (65)	4 Wed.	93-4983	109-4690	226-2247	4276
Inr. (83	2 Mon	23 17 30	23 Feb. (54)	1 Sun	9969-1816	956-7039	195-4008	4277
far. (84	4 Wed.	5 30 0	13 Mar. (73)	0 Sat	3-8212	892-6873	246-7106	4278
far. (83	5 Thur.	11 42 30	3 Mar. (62)	5 Thur.	218-1365	776-2138	218-6245	4279
far. (83	6 Fri	17 55 0	22 Mar. (81)	4 Wed.	252-7762	712-1973	269-9343	4280
far. (84) 1 Sun	0 7 30	11 Mar. (70)	1 Sun	128-4595	559-4320	239-1103	428
Iar. (84) 2 Mon	6 20 0	28 Feb. (59)	5 Thur.	4-1429	406-6669	208-2851	428
far. (83) 3 Tues.	12 32 30	18 Mar. (77)	4 Wed.	38-7825	342-3504	259-5962	428
Mar. (83) 4 Wed.	18 45 0	7 Mar. (66)	1 Sun	9914-4659	189-8851	228-7724	428
Mar. (84) 6 Fri	0 57 30	24 Feb. (55)	5 Thur.	9790-1493	37-1200	197-9485	428
Mar. (84) 0 Sat	7 10 0	15 Mar. (75)	5 Thur.	163-4208	9-3951	251-9960	428
Mar. (83) 1 Sun	13 22 30	4 Mar. (63)	2 Mon	39-1042	856-6300	221-1721	428
Mar. (83	2 Mon	19 35 0	23 Mar. (82)	1 Sun	73-7438	792-6134	272-4618	428
Mar. (84) 4 Wed.	1 47 50	13 Mar. (72)	6 Fri	288-0591	676-1399	244-3958	428
Mar. (84	5 Thur.	£ 0 0	1 Mar. (61)	3 Tues.	163-7425	523-2747	213-5720	429
Mar. (83	3) 6 Fri	14 12 50	19 Mar. (78)	1 Sun.	9859-7302	423-0665	262-1439	429
Mar. (8	3) 0 Sat	20 25 0	8 Mar. (67)	5 Thur.	9735-4336	270-3014	231-3201	429
Mar. (8	1) 2 Mon	2 37 30	26 Feb. (57)	3 Tues.	9949-7488	153-8278	203-2339	429
Mar. (8	1 3 - 4 ALAL CO.	8 50 0	16 Mar. (76)	2 Mon	9984-3885	89-8114	254-5436	429
Mar. (8:	3) 4 Wed.	15 2 30	6 Mar. (65)	0 Sat	198-7037	973-3377	226-4576	429
Mar. (8		21 15 0	23 Feb. (54)	4 Wed.	74-3871	820-5726	195-6337	429

				CONC	URRENT 1	YEAR.		
Kali.	Saka.	Chaitradi Vikrama.	Möshädi solar year in Bengal.	Kollam.	A.D.	JOVIAN S Southern system.	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTES (true).
1	2	3	3a	4	5	G	7	8
4297 4298 4299	1118 1119 1120	1253 1254 1255	602 603	370-71 371-72 372-73	1195-96 *1196-97 1197-98	49 Rāks ;asa . 50 Ana : 51 Ping	53 Siel-thärthin 54 Raudra 55 Durmati	5 Sravana .
4300 4301	1121 1122	1256 1257	605 606	373-74 374-75	1198-99 1199-1200	52 Kālayus, ta . 53 Siddhārthin .	56 Dundubhi . 57 Rudhirödgärin	4 Åshådha .
4302 4303 4304	1123 1124 1125	1258 1259 - 1260	607 608 609	375-76 376-77 377-78	*1200-01 1201-02 1202-03	54 Raudra	58 Raktāksha . 59 Krōdhana . 60 Kshaya .	2 Vaišākha
4305 4306 4307	1126 1127 1128	1261 1262 1263	610 611 612	378-79 379-80 380-81	1203-04 *1204-05 1205-06	57 Rudhirödgärin 58 Raktäksha 59 Krödhana	1 Prabhava . 2 Vibhava .	6 Bhādrapada
4308 4309	1129 1130	1264 1265	613 614	381-82 382-83	1206-07 1207-08	59 Krödhana . 60 Kshaya . 1 Prabhava .	3 Šukla 4 Praměda 5 Prajápati .	4 Āshāḍha
4310 4311 4312	1131 1132 1133	1266 1267 1268	615 616 617	383-84 384-85 385-86	*1208-09 1209-10 1210-11	2 Vibhava . 3 Sukla 4 Pramōda .	6 Angiras	3 Jyështha
4313 4314	1134 1135	1269 1270	618 619	386-87 387-88	1211-12 •1212-13	5 Prajāpati . 6 Angiras .	9 Yuvan	7 Åsvina 11 Mögha (ksh.) 12 Phälguna
4315 4316 4317	1136 1137 1138	1271 1272 1273	620 621 622	388-89 389-90 390-91	1213-14 1214-15 1215-16	7 Srimukha . 8 Bhāva . 9 Yuvan	11 Iśvara	
4318 4319 4320	1139 1140 1141	1274 1275 1276	623 624 625	391-92 392-93 393-94	*1216-17 1217-18 1218-19	10 Dhātri	14 Vikrama . 15 Vžisha 16 Chitrabhānu	
4321	1142	1277	626	394-95	1219-20	13 Pramathin .	17 Subhānu	5 Syesnina .

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Day and mouth, A.D. Week day. Time of true Misshamkränti. 13 14 17 19 20 23 24 25 25 Mar. (84) 10 20 23 24 25 25 Mar. (84) 10 20 23 24 25 25 Mar. (84) 10 20 23 24 25 25 Mar. (84) 10 20 23 24 25 25 Mar. (84) 10 20 23 24 25 25 Mar. (84) 10 20 23 24 25 25 Mar. (84) 10 20 20 21 21 24 24 25 24 24 26 24 24 24 26 24 24 26 24 24	200		1		a Cal Decree		WALLE BAR OF	www.	
Day and month, A.D. 13 14 17 19 20 23 24 25 25 Mar. (84) 0 Sat. 3 27 30 14 Mar. (73) 3 Tues. 109-0267 756-5561 246-9435 42 Mar. (84) 1 Sun. 9 40 0 2 Mar. (82) 24 Mar. (83) 2 Mon. 15 52 30 21 Mar. (80) 6 Fri. 19-3497 539-7744 267-4293 41 24 Mar. (83) 3 Tues. 22 5 0 10 Mar. (69) 3 Tues. 9895-0331 387-0092 236-6054 43 24 Mar. (84) 5 Thur. 4 17 30 27 Feb. (58) 0 Sat. 9895-0331 387-0092 236-6054 43 24 Mar. (84) 6 Fri. 10 60 0 17 Mar. (77) 6 Fri. 9805-3561 170-2276 257-8014 44 Mar. (83) 1 Sun. 22 55 0 25 Feb. (56) 2 Mon. 233-9868 937-2894 200-9192 43 24 Mar. (84) 3 Tues. 5 7 30 16 Mar. (75) 1 Sun. 268-6263 873-2640 262-2289 42 Mar. (84) 4 Wed. 11 20 0 4 Mar. (84) 5 Thur. 144-3006 7 20-4987 221-4051 42 Mar. (83) 5 Thur. 17 32 30 23 Mar. (82) 4 Wed. 178-9493 656-4823 272-7148 42 Mar. (84) 24 Mar. (84) 5 Thur. 17 32 30 23 Mar. (71) 1 Sun. 54-6327 303-7171 241-8910 424 Mar. (84) 25 Mar. (84) 5 Thur. 0 35 O 26 Feb. (57) 6 Fri. 9903-3161 350-9519 211-0672 4 Mar. (84) 25 Mar. (84) 5 Thur. 0 35 O 26 Feb. (57) 6 Fri. 54-9544 13-6066 203-4669 424 Mar. (84) 5 Thur. 0 35 O 26 Feb. (57) 6 Fri. 54-9544 13-6066 203-4669 24 Mar. (84) 5 Thur. 0 35 O 26 Feb. (57) 6 Fri. 54-9544 13-6066 203-4669 24 Mar. (84) 5 Thur. 0 35 O 26 Feb. (57) 6 Fri. 54-9544 13-6066 203-4669 24 Mar. (84) 5 Thur. 0 35 O 26 Feb. (57) 6 Fri. 54-9544 13-6066 203-4669 24 Mar. (84) 5 Thur. 10 10 Mar. (76) 10 Mar. (76) 10 Mar. (77) 10 Mar. (78) 11 Sun. 980-9019 136-985 126-1196 24 Mar. (84) 25 Mar. (84) 26 Fri. 0 27 Feb. (88) 28 Mar. (87) 28 Mar. (87) 29 Mar. (88) 20 Mar. (89) 21 Mar. (89) 22 Mar. (89) 23 Mar. (89) 24 Mar. (89) 3 Tues. 89-90-90-90 36-8801 24 Mar. (89) 25 Mar. (84) 4 Wed. 7 37 30 3 Mar. (82) 3 Tues. 89-91-66 46-6399 36-64-823 37-2665 226-6906 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 10 Mar. (93) 10 Mar. (93) 3 Tues. 9990-91-99 36-83-834 24 Mar. (84) 5 Thur. 19-36-838 24 Mar. (81) 24 Mar. (81) 25	So	LAR YEAR.		LUNI-SOLAR Y				N WHICH	Kali
H. M. S. 14 H. M. S. 109-0267 756-5561 246-9435 44 24 Mar. (84) 1 Sun. 9 40 0 2 Mar. (82) 0 Sat. 9984-7101 603-7908 216-1196 42 24 Mar. (83) 2 Mon. 15 52 30 21 Mar. (80) 6 Fri. 19-3497 539-7744 267-4293 42 Mar. (83) 3 Tues. 22 5 0 10 Mar. (69) 3 Tues. 9895-0331 387-0092 236-6054 43 25 Mar. (84) 5 Thur. 4 17 30 27 Feb. (58) 0 Sat. 970-7165 234-2441 205-7817 44 44 44 47 30 27 Feb. (58) 0 Sat. 970-7165 234-2441 205-7817 44 44 44 45 30 7 Mar. (77) 6 Fri. 9805-3561 170-2276 257-0914 44 44 45 45 45 45 45		FALSE	true Mesha-			a.	ь.	e.	
25 Mar. (84) 0 Sat 3 27 30 14 Mar. (73) 3 Tues. 109-0267 756-5561 246-9435 42 24 Mar. (84) 1 Sun 9 40 0 2 Mar. (62) 0 Sat 9984-7101 603-7908 216-1196 42 24 Mar. (83) 2 Mon 15 52 30 21 Mar. (80) 6 Fri 19-3497 539-7744 267-4293 42 24 Mar. (83) 3 Tues. 22 5 0 10 Mar. (69) 3 Tues. 9895-0331 387-0092 236-6054 42 25 Mar. (84) 5 Thur. 4 17 30 27 Feb. (58) 0 Sat 9770-7165 234-2441 205-7817 42 24 Mar. (84) 6 Fri 10 60 0 17 Mar. (77) 6 Fri 9805-3561 170-2276 257-0914 42 24 Mar. (83) 0 Sat 16 42 30 7 Mar. (06) 4Wed. 19-6714 53-7540 229-0054 43 24 Mar. (83) 1 Sun 22 55 0 25 Feb. (56) 2 Mon 233-9866 937-2994 200-9192 43 25 Mar. (84) 3 Tues. 5 7 30 16 Mar. (75) 1 Sun 268-6263 873-2640 252-2289 43 24 Mar. (84) 4 Wed. 11 20 0 4 Mar. (64) 5 Thur. 144-3096 720-4987 221-4051 43 24 Mar. (83) 5 Thur. 17 32 30 23 Mar. (82) 4 Wed. 178-9493 656-4823 272-7148 43 24 Mar. (84) 2 Mon. 12 10 0 19 Mar. (70) 4 Wed. 9964-9557 236-9354 262-3769 43 24 Mar. (84) 2 Mon. 12 10 0 19 Mar. (70) 4 Wed. 9964-9557 236-9354 262-3769 43 25 Mar. (84) 5 Thur. 0 35 0 26 Feb. (57) 6 Fri 54-9544 13-0966 203-4669 43 25 Mar. (84) 0 Sat 13 0 0 6 Mar. (66) 3 Thur. 89-9599 933-6801 254-7766 43 25 Mar. (84) 0 Sat 13 0 0 6 Mar. (66) 3 Thur. 89-9599 933-6801 254-7766 43 25 Mar. (84) 3 Tues. 1 25 0 14 Mar. (73) 6 Fri 54-9544 13-0966 203-4669 43 25 Mar. (84) 3 Tues. 1 25 0 14 Mar. (73) 6 Fri 214-2321 620-4249 247-1765 43 25 Mar. (84) 5 Thur. 13 50 0 20 Mar. (83) 1 Sun. 9999-9199 736-8985 275-2625 43 25 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun. 9999-9199 736-8985 275-2625 43 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun. 9785-9233 36-3516 264-9245 43 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun. 9785-9233 36-3516 264-9245 43 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun. 9785-9233 36-3516 264-9245 43 24 Mar. (84) 5 Thur. 13 50 0 60 Mar. (69) 6 Fri. 0 0-2385 250-8780 233-8894	13	14	17	19	20	23	24	25	- 1
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25 Mar. (84) 2 Mon. 12 10 0 19 Mar. (79) 4 Wed. 9964-9557 236-9354 262-3769 4 24 Mar. (83) 3 Tues. 18 22 30 8 Mar. (67) 1 Sun 9840-6390 134-1702 231-5529 4 25 Mar. (84) 5 Thur. 0 35 0 26 Feb. (57) 6 Fri 54-9544 13-6966 203-4669 4 25 Mar. (84) 6 Fri 6 47 30 17 Mar. (76) 5 Thur. 89-5939 953-6801 254-7766 4 24 Mar. (84) 0 Sat 13 0 0 6 Mar. (66) 3 Tues. 303-9092 837-2065 226-6906 4 24 Mar. (83) 1 Sun 19 12 30 24 Mar. (83) 1 Sun 9999-9169 736-8985 275-2625 4 25 Mar. (84) 3 Tues. 1 25 0 14 Mar. (73) 6 Fri 214-2321 620-4249 247-1765 4 25 Mar. (84) 4 Wed. 7 37 30 3 Mar. (62) 3 Tues. 89-9156 467-6597 215-3526 4 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun 9785-9233 367-3616 264-9245 4 24 Mar. (83) 6 Fri 20 2 30 10 Mar. (69) 6 Fri . 0-2385 250-8780 233-8384 4	24 Mar. (83)	6 Fri	23 45 0	12 Mar. (71)	1 Sun.	54-6327	503-7171	241-8910	430
24 Mar. (84) 2 Mar. (87) 1 Sun 9849-6399 134-1702 231-5529 4 25 Mar. (84) 5 Thur. 0 35 0 26 Feb. (57) 6 Fri 54-9544 13-6966 203-4669 4 25 Mar. (84) 6 Fri 6 47 30 17 Mar. (76) 5 Thur. 89-5939 953-6801 254-7766 4 24 Mar. (84) 0 Sat 13 0 0 6 Mar. (66) 3 Tues. 303-9092 837-2065 226-6906 4 24 Mar. (83) 1 Sun 19 12 30 24 Mar. (83) 1 Sun 9999-9169 736-8985 275-2625 4 25 Mar. (84) 3 Tues. 1 25 0 14 Mar. (73) 6 Fri 214-2321 620-4249 247-1765 4 25 Mar. (84) 4 Wed. 7 37 30 3 Mar. (62) 3 Tues. 89-9156 467-6597 215-3526 4 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun 9785-9233 367-3616 264-9245 4 24 Mar. (83) 6 Fri 20 2 30 10 Mar. (69) 6 Fri . 0-2385 250-8780 233-8384 4	25 Mar. (8*)	1 Sun	5 57 30	1 Mar. (60)	5 Thur.	9930-3161	350-9519	2000 and 1000	430
24 Mar. (84) 5 Thur. 0 35 0 26 Feb. (57) 6 Fri 54-9544 13-6966 203-4669 4 25 Mar. (84) 6 Fri 6 47 30 17 Mar. (76) 5 Thur. 89-5939 953-6801 254-7766 4 24 Mar. (84) 0 Sat 13 0 0 6 Mar. (66) 3 Tues. 303-9092 837-2065 226-6906 4 24 Mar. (83) 1 Sun 19 12 30 24 Mar. (83) 1 Sun 9999-9169 736-8985 275-2625 4 25 Mar. (84) 3 Tues. 1 25 0 14 Mar. (73) 6 Fri 214-2321 620-4249 247-1765 4 25 Mar. (84) 4 Wed. 7 37 30 3 Mar. (62) 3 Tues. 89-9156 467-6597 215-3526 4 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun 9785-9233 367-3616 264-9245 4 24 Mar. (83) 6 Fri 20 2 30 10 Mar. (69) 6 Fri . 0-2385 250-8780 235-8384	24 Mar. (84)	2 Mon.	12 10 0	19 Mar. (79)	4 Wed.	9964-9557	236-9354	Louis Carrier	431
25 Mar. (84) 5 Thur. 0 35 0 26 Feb. (67) 5 Thur. 89-5939 953-6801 254-7766 4 25 Mar. (84) 6 Fri. 6 47 30 17 Mar. (76) 5 Thur. 89-5939 953-6801 254-7766 4 24 Mar. (84) 0 Sat. 13 0 0 6 Mar. (66) 3 Tues. 303-9092 837-2065 226-6906 4 24 Mar. (83) 1 Sun. 19 12 30 24 Mar. (83) 1 Sun. 9999-9169 736-8985 275-2625 4 25 Mar. (84) 3 Tues. 1 25 0 14 Mar. (73) 6 Fri. 214-2321 620-4249 247-1765 4 25 Mar (84) 4 Wed. 7 37 30 3 Mar. (62) 3 Tues. 89-9156 467-6597 215-3526 4 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun. 9785-9233 367-3616 264-9245 4 24 Mar. (83) 6 Fri. 20 2 30 10 Mar. (69) 6 Fri 0-2385 250-8780 235-8384 4	24 Mar. (83)	3 Tues.	18 22 30	8 Mar. (67)	1 Sun	9840-6390	100 CO CO CO		431
25 Mar. (84) 6 Fri 6 47 30 17 Mar. (75) 5 Talar. (76) 24 Mar. (84) 0 Sat 13 0 0 6 Mar. (66) 3 Tues. 303-9092 837-2065 226-6906 4 24 Mar. (83) 1 Sun 19 12 30 24 Mar. (83) 1 Sun 9999-9169 736-8985 275-2625 4 25 Mar. (84) 3 Tues. 1 25 0 14 Mar. (73) 6 Fri 214-2321 620-4249 247-1765 4 25 Mar (84) 4 Wed. 7 37 30 3 Mar. (62) 3 Tues. 89-9156 467-6597 215-3526 4 24 Mar. (84) 5 Thur. 13 50 0 20 Mar. (80) 1 Sun 9785-9233 367-3516 264-9245 4 24 Mar. (83) 6 Fri 20 2 30 10 Mar. (69) 6 Fri . 0-2385 250-8780 235-8384	25 Mar. (84)	5 Thur.	0 35 0	26 Feb. (57)	6 Fri		20/20/20/20/20		43
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24 Mar. (83) 6 Fri. , 20 2 30 10 Mar. (69) 6 Fri . 0-2385 250-8780 235-8384 4	25 Mar (84)	4 Wed.	7 37 30	3 Mar. (62)	3 Tues.		The second second	101100000000	43
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25 Mar. (84) 1 Sun. 2 15 0 27 Feb. (58) 3 Tues. 9875-9219 98-1128 206-0146	24 Mar. (83	6 Fri	20 2 30	10 Mar. (69)	1000000	Vanna -	1347015 0101		43
95 May (84) 9 Non 8 97 30 18 Mar. (77) 2 Mon 9910-5615 344-963 257-3243	25 Mar. (84) 1 Sun.	. 2 15 0	27 Feb. (58)	3 Tues.	100000000000000000000000000000000000000		10.012.34	43

TABLE

				CONCL	RRENT Y	EAR.	41	
Kali.	Saka.	Chaitradi Vikrama.	Mëshidi solar year in Bengal	Kollam.	A,D.	JOVIAN SA Southern system.	Northern system.	INTERCALATED (adhika) and suppressed (kshaya) Lunai Months (true).
1	9	3	3a	4	5	6	7	8
4322	1143 1144	1278 1279	627 628	395-96 396-97	*1220-21 1221-22	14 Vikrama 15 Vrisha	18 Tăraņa	2 Valšākha
4324	1145	1280	629	397-98	1222-23	16 Chitrabhānu .	20 Vyaya	272
4325	1146	1281	630	398-99	1223-24	17 Subhānu .	21 Sarvajit .	6 Bhādrapada
4326	1147	1282	631	399-400	*1224-25	18 Tāraņa	22 Sarvadhārin .	244
4327	1148	1283	632	400-01	1225-26	19 Parthiva .	23 Visõdhin .	44
4328	1149	1284	633	401-02	1226-27	20 Vyaya	24 Vikrita	4 Ashādha
4329	1150	1285	634	402-03	1227-28	21 Sarvajit .	25 Khara	225
4330	1151	1286	635	403-04	*1228-29	22 Sarvadhārin .	26 Nandana .	•••
4331	1152	1287	636	404-05	1229-30	23 Virôdhin .	27 Vijaya . ,	3 Jyështha
4332	1153	1288	637	405-06	1230-31	24 Vikrita	28 Jaya	- 70 -
4333	55000	1289	638	406-07	1231-32	25 Khara	29 Manmatha	7 Āśvina
4334	1155	1290	639	407-08	*1232-33	26 Nandana .	30 Durmukha .	***
4335		1291	640	408-09	1233-34	27 Vijaya	31 Hēmalamba .	* 6 *
4336	O HARRIST CO.	1292	641	409-10	1234-35	28 Jaya	32 Vilamba .	5 Srāvaņa
4337	1158	1293	642	410-11	1235-36	29 Manmatha .	33 Vikārin	***
4338	1159	1294	643	411-12	*1236-37	30 Durmukha .	22.22	7 T. S. b.b.
4339	1160	1295	644	412-13	1237-38	31 Hēmalamba .	35 Plava	3 Jyeshtha
4340	1000	1296	645	413-14	1238-39	32 Vilamba .	or fire.	***
4341	1162	1297	646	414-15	1239-40	23 Vikārin	60 YE + 1.1	9 Walfal L
4342		1298	447	415-16	*1240-41	ar me	90 (774-12-1-1-1	2 Vaišākha
4343		1299	648	416-17	1241-42	ACCOUNT OF THE	to several actions	6 Bhédrapada
1344	1165	1300	649	100000	1242-43	1	71 Warrange 4	
4345	1000000	1301	650	418-19	02000000	or to the state of	40 7791.1	***
4346	1167	1302	651	419-20	*1244-45	38 Krödhin .	42 Kilaka	***

LXI-Coned.

	COMMENCEMENT OF THE										
		001	MMENUEMENT	OF THE				-			
	SOLAR YEAR		LUNI-SOLAR		n sunrise o la ŝukta 1		os which	Kali,			
Day and month, A.D.	Week-day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week-day.	a.	ь.	e.				
13	14	17	19	20	23	24	25	1			
	-	н. м. в.									
24 Mar. (84)	3 Tues.	14 40 0	7 Mar. (67)	0 Sat	124-8768	917-6228	229-2383	4322			
24 Mar. (83)	4 Wed.	20 52 30	24 Feb. (55)	4 Wed.	0-5602	754-8576	198-4143	4323			
25 Mar. (84)	6 Fri	3 5 0	15 Mar. (74)	3 Tues.	35-1998	700-8410	249-7241	4324			
25 Mar. (84)	0 Sat	9 17 30	4 Mar. (63)	0 Sat	9910-8832	548-0759	218-9002	4325			
24 Mar. (84)	1 Sun	15 30 0	22 Mar. (82)	6 Fri	9945-5228	484-0594	270-2099	4326			
24 Mar, (83)	2 Mon	21 42 30	11 Mar. (70)	3 Tues.	9821-2062	331-2941	239-3861	4327			
25 Mar. (84)	4 Wed.	3 55 0	1 Mar. (60)	1 Sun	35-5215	214-8206	211-3001	4328			
25 Mar. (84)	5 Thur.	10 7 30	20 Mar. (79)	0 Sat	70-1611	150-8142	262-6098	4329			
24 Mar. (84)	6 Fri	16 20 0	8 Mar. (68)	4 Wed.	9945-8444	998-0389	231-7858	4330			
24 Mar. (83)	0 Sat	22 32 30	26 Feb. (57)	2 Mon	160-1597	881-5653	203-6998	4331			
25 Mar. (84)	2 Mon	4 45 0	17 Mar. (76)	1 Sun	194-7903	817-5489	255-0095	4332			
25 Mar. (84)	3 Tues.	10 57 30	6 Mar. (65)	5 Thur.	70-4827	664-7836	224-1857	4333			
24 Mar. (84)	4 Wed.	17 10 0	24 Mar. (84)	4 Wed.	105-1223	600-7672	275-4954	4334			
24 Mar. (83)	5 Thur.	23 22 30	13 Mar. (72)	1 Sun	9980-8057	448-0020	244-6716	4335			
25 Mar. (84)	0 Sat	5 35 0	2 Mar. (61)	5 Thur.	9856-4891	295-2368	213-8476	4336			
25 Mar. (84)	1 Sun	11 47 30	21 Mar. (80)	4 Wed.	9891-1287	231-2203	265-1574	4337			
24 Mar. (84)	2 Mon	18 0 0	9 Mar. (69)	I Sun	9766-8121	78-4551	234-3335	4338			
25 Mar. (84)	4 Wed.	0 12 30	27 Feb. (58)	6 Fri	9981-1274	961-9816	206-2475	4339			
25 Mar. (84)	5 Thur.	6 25 0	18 Mar. (77)	5 Thur.	15-7670	897-9640	257-5572	4340			
25 Mar. (84)	6 Fri	12 37 30	8 Mar. (67)	3 Tues.	230-0823	781-4915	229-4612	4341			
24 Mar. (84)	0 Sat	18 50 0	25 Feb. (56)	0 Sat	105-7656	628-7263	198-6473	4342			
25 Mar. (84)	2 Mon	1 2 30	15 Mar. (74)	6 Fri	140-4053	564-7098	249-9570	4343			
25 Mar. (84)	3 Tues.	7 15 0	4 Mar. (63)	3 Tues.	16-0887	411-9446	219-1331	4344			
25 Mar. (84)	4 Wed.	13 27 30	23 Mar. (82)	2 Mon	50-7283	347-9281	270-4428	4345			
25 Mar. (84)	5 Thur.	19 40 0	11 Mar. (71)	3 Fri	9926-4116	195-1629	239-6190	4346			

TABLE

		EAR.	RRENT Y	CONCU				
INTERCALATED (adhiku) and SUPPRESSED (kshaya) LUNAR MONTHS (true).	Northern system.	JOVIAN SAI	A.D.	Kollam.	Meshādi solar year in Bengal.	i Vikrai		Kali
8	7	6	5	4	3a	3	2	1
						-		1
4 Āshādha .	43 Saumya. ,	39 Viśvāvasu .	1245-46	420-21	652	1303	1168	4347
***	44 Sädhirana† .	40 Parabhava .	1246-47	421-22	653	1304	1169	4348
***	46 Paridhāvin .	41 Plavanga .	1247-48	422-23	654	1305	1170	4349
3 Jyështha	47 Pramādin .	42 Kilaka	*1248-49	423-24	655	1306	1171	4350
***	48 Ananda .	43 Saumya .	1249-50	424-25	656	1307	1172	4351
7 Āśvina	49 Rākshasa .	44 Sādhāraņa .	1250-51	425-26	657	1308	1173	4352
***	50 Anala	45 Virödhakrit .	1251-52	426-27	658	1309	1174	4353
****	51 Pingala	46 Paridhāvin .	*1252-53	427-28	659	1310	1175	4354
5 Śrāvaņa	52 Kålayukta .	47 Pramādin .	1253-54	428-29	660	1311	1176	4355
344	53 Siddhārthin .	48 Ānanda .	1254-55	429-30	661	1312	1177	4356
***	54 Raudra .	49 Rākshasa .	1255-56	430-31	662	1313	1178	4357
3 Jyeshtha	55 Durmati .	50 Anala	*1256-57	431-32	663	1314	1179	4358
1	56 Dundubhi .	51 Pingala .	1257-58	432-33	664	1315	1180	4359
8 Kärttika 10 Pausha (ksh.)	57 Rudhirōd- {	52 Kâlayukta .	1258-59	433-34	665	1316	1181	1360
1 Chaitra	58 Raktāksha .	53 Siddhärthin .	1259-60	434-35	666	1317	1182	4361
36	59 Krödhana .	54 Raudra .	*1260-61	435-36	667	1318	1183	436
6 Bhādrapada	60 Kshaya .	55 Durmati .	1261-62	436-37	668	1319	1184	4363
***	1 Prabhava .	56 Dundubhi .	1262-63	437-38	669	1320	1185	436
:***	2 Vibhava ,	57 Rudhirödgårin	1263-64	438-39	670	1321	1186	436
4 Áshádha	3 Šukla	58 Raktāksha .	*1264-65	439-40	671	1322	1187	436
724	4 Pramôda .	59 Krődhana .	1265-66	2 440-41	672	1323	1188	436
	5 Prājāpal.	60 Kshaya .	1266-67	3 441-42	672	1324	1189	436
3 Jyështha	6 Angiras .	1 Prabhava .	1267-68	442-43	674	1325	1190	436
	7 Śrimukha .	2 Vibhava .	*1268-69	443-44	675	1326	1191	4371
7 Asvina	8 Bhāva , ,	3 Sukia .	1269-70	444-45	676	1327	1192	437

† 45 Virodhakrit was suppressed in the north

LXI-Contd.

8	OLAR YEAR.		LUNI-SOLAB YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS).						
Day and nonth, A.D.	Woek- day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week-day.	a,	6.	6	Ka	
13	- 14	17	19	20	23	24	25	1	
		H. M. S.		n m	9802-0950	42-3977	208-7952	434	
25 Mar. (84)	0 Sat.	1 52 30	28 Feb. (59)	3 Tues.			262-8427	434	
25 Mar. (84)	I Sun	8 5 0	20 Mar. (79)	3 Tues.	175-3365	14-6728	232-0187	434	
25 Mar. (84)	2 Mon	14 17 30	9 Mar. (68)	0 Sat	51-0499	861-9077 745-4341	203-9327	435	
4 Mar. (84)	3 Tues.	20 30 0	27 Feb. (58)	5 Thur.	265-3651	AND DESCRIPTION	255-2424	435	
25 Mar. (84)	5 Thur.	2 42 30	17 Mar. (76)	4 Wed	300-0047	681-4176	224-4186	435	
5 Mar. (84)	6 Fri. ,	8 55 0	6 Mar. (65)	1 Sun	175-6881	528-6524	274-9180	435	
5 Mar. (84)	0 Sat	15 7 30	24 Mar. (83)	6 Fri	9871-6959	428-3444	Tabliff Tokkhol	435	
4 Mar. (84)	! Sun	21 20 0	12 Mar. (72)	3 Tues.	9747-3793	275-5791	242-1667 214-0805	435	
5 Mar. (84)	3 Tues.	3 32 30	2 Mar. (61)	1 Sun	9961-6945	159-1055	265-3903	435	
5 Mar. (84)	4 Wed.	9 45 0	21 Mar. (80)	0 Sat	9996-3341	95-0891	Market State of the State of th	435	
5 Mar. (84)	5 Thur.	15 57 30	11 Mar. (70)	5 Thur.	210-6494	978-6154	237-3042	435	
4 Mar. (84)	6 Fri	22 10 0	28 Feb. (59)	2 Mon	86-3328	825-8503	206-4804	435	
5 Mar. (84)	1 Sun	4 22 30	18 Mar. (77)	1 Sun	120-9724	761-8338	257-7901	436	
5 Mar. (84)	2 Mon	10 35 0	7 Mar. (66)	5 Thur.	9996-6558	609-0686	226-9663	Paris of the last	
5 Mar. (84)	3 Tues.	16 47 30	24 Feb. (55)	2 Mon	9872-3392	456-3034	196-1424	436	
4 Mar. (84)	4 Wed.	23 0 0	4 Mar. (74)	1 Sun	9906-9788	392-2869	247-4521	436	
5 Mar. (84)	6 Fri	5 12 30	3 Mar. (62)	5 Thur.	9782-6622	239-5218	216-6282	436	
5 Mar. (84)	0 Sat	11 25 0	22 Mar. (81)	4 Wed.	9817-3018	175-5052	267-9380	436	
5 Mar. (84)	1 Sun	17 37 30	12 Mar. (71)	2 Mon	31-6171	59-0317	239-8519	436	
Mar. (84)	2 Mon	23 50 0	29 Feb. (60)	6 Fri	9907-3005	906-2665	209-0281	436	
Mar. (84)	4 Wed.	6 2 30	20 Mar. (79)	6 Fri	280-5720	878-5417	263-0756	436	
Mar. (84)	5 Thur.	12 15 0	9 Mar. (68)	3 Tues.	156-2553	725-7764	232-2516	436	
Mar. (84)	6 Fri	18 27 30	26 Feb. (57)	0 Sat	31-9387	573-0112	201-4278	436	
Mar. (85)	1 Sun. ,	0 40 0	16 Mar. (75)	= Fri	66-5784	509-2864	255-4753	437	
5 Mar (84)	2 Mon	6 52 30	5 Mar. (64)	3 Tues.	9942 2617	56-2 295	221-9137	427	

TABLE

-	_	-	-					
				CONCUR	RENT YE.	AR.		
		krama.	ar year	W.		Jovian Sam	VATSARA.	INTERCALATED (adhika) and SUPPRESSED
Kali.	Salca.	Chaitradi Vikrama.	Mēshādi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	(kshaya) LUNAB MONTHS (true).
1	2	3	3a	4	5	6	7	8
4372	1193	1328	677	445-46	1270-71	4 Pramôda	9 Yuvan	
4373	1194	1329	678	446-47	1271-72	5 Prajāpati .	10 Dhātri	***
4374	1195	1330	679	447-48	*1272-73	6 Angiras .	11 Iśvara	4 Āshādha .
4375	1196	1331	680	448-49	1273-74	7 Śrimukha .	12 Bahudhānya .	
4376	1197	1332	681	449-50	1274-75	8 Bhāva	13 Pramäthin .	200
4377	1198	1333	682	450-51	1275-76	9 Yuvan	14 Vikrama .	3 Jyeshtha .
4378	1199	1334	683	451-52	+1276-77	10 Dhātri	15 Vrisha	9 Mārgasira
437	1200	1335	684	452-53	1277-78	11 livara	16 Chitrabhānu	10 Pausha (ksh.)
438	1201	1336	685	453-54	1278-79	12 Bahudhānya .	17 Subhānu .	
438	1 1200	1337	686	454-55	1279-80	13 Pramāthin .	18 Tăraņa	***
438	200	1338	687	455-56	*1280-81	14 Vikrama .	19 Parthiva .	5 Śrāvaņa .
438		1339	688	456-57	1281-82	15 Vrisha	20 Vyaya	***
438			689	457-58	1282-83	16 Chitrabhānu .	21 Sarvajit .	A.
438	5 120	6 1341	690	458-59	1283-84	17 Subhānu .	22 Sarvadhārin .	4 Āshādha .
438	86 120	7 1345	691	459-60	*1284-85	18 Tarana	23 Virôdhin .	
438	37 120	8 134;	8 692	460-61	1285-86	19 Pärthiva .	24 Vikrita	***
43	88 120	0 134	693	461-62	1286-87	20 Vyaya	25 Khara	2 Vaišākha .
43	89 121	0 134	5 694	462-63	1287-88	21 Sarvajit	26 Nandana .	***
43	90 121	1 134	6. 690	463-64	*1288-89	22 Sarvadhārin .	27 Vijaya	6 Bhādrapada
43	91 121	2 134	7 696	464-55	1289-90	23 Virödhin .	28 Jaya	***
43			8 697	465-66	1290-91	24 Vikrita	29 Manmatha	1 44
43	SCA . SERV	-	1000	8 466-67	1291-92	25 Khara	30 Durmukha	4 Āshādha .
43	200 100	ALC: NO. NO.	0 699	9 467-68	*1292-93	26 Nandana .	31 Hēmalamba	
+3	95 12	16 135	1 70	468-69	1293-94	27 Vijaya	32 Vilamba	
43	96 12	7 135	2 701	1 469-70	1294-95	28 Jaya	33 Vikārin .	3 Jyeshtha .

LXI-Contd.

	-	COMM	ENCEMENT O	e THE		7	1	
So	LAB YEAR.	COMM	LUNI-SOLAR YE.	AR (MEAN SI	UNRISE OF CI	VIL DAY OS	wиси	
30.	LAR I SALIS			CHAITRA S	UKLA I END	s).		Kati.
Day and month, A.D.	Week- day.	Time of true Měsha- samkränti.	Day and month, A.D.	Week- day.	d.	b.	c.	
13	14	17	19	20	23	24	25	E
	0.10	H. M. S.	24 Mar. (83)	2 Mon	9976-9014	202-2121	273-2234	4372
25 Mar. (84)	3 Tues.	100 mg 41 00 kg	13 Mar. (72)	6 Fri	9852-5848	139-4479	242-3996	4373
25 Mar. (84)	4 Wed.	2 7/12	0.0000000000000000000000000000000000000	4 Wed.	66-9000	22-9743	214-3134	4374
25 Mar. (85)	6 Fri.	1 30 0	2 Mar. (62)	3 Tues.	101-5396	958-9578	265-6232	4375
25 Mar. (84)	0 Sat.	7 42 30	21 Mar. (80)	0 Sat.	9977-2230	806-1926	234-7993	4376
25 Mar. (84)	1 Sun	13 55 0	10 Mar. (69)	5 Thur.	191-5382	689-7191	206-7133	4377
25 Mar. (84)	2 Mon	20 7 30	28 Feb. (59)	4 Wed.	226-1778	624-7025	258-0230	4378
25 Mar. (85)	4 Wed.	2 20 0	18 Mar. (78)	1112011111	101-8612	472-9373	227-1902	4379
25 Mar. (84)	5 Thur.	8 32 30	7 Mar. (66)	1 Sun	HANDSON STA	372-6293	275-7711	4380
25 Mar. (84)	6 Fri	14 45 0	25 Mar. (84)	6 Fri	9797-8690	A TABLE TO A TABLE	247-6750	4381
25 Mar. (84)	0 Sat.	20 57 30	15 Mar. (74)	4 Wed.	12-1842	256-1556	CONTRACTOR OF STREET	4382
25 Mar. (85)	2 Mon	3 10 0	3 Mar. (63)	1 Sun	9887-8676	103-3905	216-8611	lanca and
25 Mar. (84)	3 Tues.	9 22 30	22 Mar. (81)	0 Sat	9922-5072	39-3740	268-1709	4383
25 Mar. (84)	4 Wed.	15 35 0	12 Mar. (71)	5 Thur.	136-8225	922-9004	240-0848	4384
25 Mar. (84)	5 Thur.	21 47 30	1 Mar. (60)	2 Mon	12-5059	770-1352	209-2610	4385
25 Mar. (85)	0 Sat	4 0 0	19 Mar. (79)	1 Sun	47:1455	706-1187	260-5706	4386
25 Mar. (84)	1 Sun	10 12 30	8 Mar. (67)	5 Thur.	9922-8289	553-3536	229-7458	4387
25 Mar. (84)	2 Mon	16 25 0	25 Feb. (56)	2 Mon	9798-5122	400-5883	198-9229	4388
25 Mar. (84)	3 Tues	22 37 30	16 Mar. (75)	1 Sun	9833-1519	336-5718	250-1827	4380
25 Mar. (85)	5 Thur.	4 50 0	5 Mar. (65)	6 Fri	47-4671	220-0983	222-1466	4390
25 Mar. (84)		11 2 30	23 Mar. (82)	4 Wed.	9743-4749	119-7901	270-7185	4391
25 Mar. (84)		17 15 0	13 Mar. (72)	2 Mon	9957-7901	3-3166	242-6325	4395
253Mar. (84	A PARTITION OF	1 2 2	3 Mar. (62)	0 Sat	172-1054	886-8430	214 5463	4393
25 Mar. (85		5 40 0	21 Mar. (81)	6 Fri	206-7450	822-8266	265-8561	439
25 Mar. (84	N SAMOON	11 52 30	10 Mar. (69)	3 Tues.	82-4284	676-0613	235-0322	429
25 Mar. (84	W. C. W. W.	18 5 (CONTRACT UNION	0 Sat.	9958-1118	517-2962	204-2084	4396

TABLE

			10.00					r
				CONCU	RRENT Y	EAR.		14
	A 4	Ilcrama.	solar year		- Till	JOVIAN SA	MVATSARA.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR
Kali.	Saka.	Chaitrādi Vilcrama.	Meshiidi so in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	MONTHS (true).
1	2	3	3a	4	5	6	7	8
4307	1218	1353	702	470-71	1295-96	29 Manmatha .	34 Särvarin .	
4398	1219	1354	703	471-72	*1296-97	30 Durmukha .	35 Plava	12 Phälguna .
4399	1220	1355	704	472-73	1297-98	31 Hēmalamba	36 Subhakrit .	10 Same
4400	1221	1356	705	473-74	1298-99	32 Vilamba	37 Söbhana .	****
4401	1999	1357	706	474-75	1299-1300	33 Vikārin	38 Krôdhin .	5 Srāvaņa .
4402	1223	1358	707	475-76	*1300-01	34 Śārvarin .	39 Višvāvasu .	
4403	1224	1359	708	476-77	1301-02	35 Plava	40 Parābhava .	
	1225	1360	709	477.78	1302-03	36 Subhakrit .	41 Plavánga .	4 Åshādha .
4404	1226	1361	710	478-79	1303-04	37 Sobhana .	42 Kilaks	
4405	1227	1362	711	479-80	*1304-05	38 Krödhin .	43 Saumya .	***
10000000	1228	1363	712	480-81	1305-06	39 Viávāvasu .	44 Sådhārana .	2 Vaišākha .
4407	1220	1364	713	481-82	1306-07	40 Parābhava .	45 Virôdhakrit .	
4408	1230	1365	714	482-83	1307-08	41 Playanga .	46 Paridhāvin .	6 Bhādrapada,
4400	1231	1366	715	483-84	*1308-09	42 Kilaka	47 Pramādin .	744
4410	1231	1367	716	484-85	1309-10	43 Saumya	48 Ānanda .	
0	1232	100000000000000000000000000000000000000	717	485-86	1310-11	44 Sādhāraņa .	49 Rākshasa	4 Åshādha
4412	1233	1368	718	486-87	1311-12	45 Virodhakrit	50 Anala	
4413	1234	1370	718	487-88	*1312-13	46 Paridhāvin	51 Pingala	(819
4414	and the same	152	b ac	488-89	1313-14	47 Pramādin .	52 Kālayukta .	3 Jyeshtha
4415	1236	1371	720	480-90	1314-15	48 Ānanda .	53 Siddhārthin .	Store Smith III I.
4416	1237			490-91	1315-16	49 Rākshasa .	54 Raudra	12 Phälguna
4417	1238	1373	700	491-92	*1316-17	50 Anala	55 Durmati .	
4418	1239	1374	723	492-93	1317-18	51 Pingala	56 Dundubhi ,	
4419	1240	1375	724	Secretary.	1318-19	52 Kålayukta	57 Rudhirödgárin	5 Śrāvaņa
4420	1241	1376	725	493-94	100-V/-201	53 Siddharthin .	58 Raktālisha	
4421	1242	1377	726	494-95	1319-20	oo commarenii .	S. A. A. A. A. A. A. A. A. A. A. A. A. A.	***

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=	Name and Address							- 1	-
			COMM	ENCEMENT O	F THE				
-	So	LAR YEAR.		LUNI-SOLAR YE		UNRISE OF CI		wнісн	Kali,
-	Day and nonth, A.D.	Week-day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week- day.	~ a.	ь.	ć.	
1	13	14	17	19	20	23	24	25	1
-	-	-	H. M. S.						
	26 Mar. (85)	0 Sat	0 17 30	18 Mar. (77)	6 Fri. :	9992-7514	453-2797	255-5181	4397
1	25 Mar. (85)	1 Sun. +	6 30 0	6 Mar. (66)	3 Tues.	9868-4348	300-5144	224-6943	4398
1	25 Mar. (84)	2 Mon	12 42 30	25 Mar. (84)	2 Mon	9903-0744	236-4980	276-0039	4399
1	25 Mar. (84)	3 Tues.	18 55 0	14 Mar. (73)	6 Fri	9778-7578	83-7328	245-1801	4400
1	26 Mar. (85)	5 Thur.	1 7 30	4 Mar. (63)	4 Wed.	9993-0731	967-2592	217-0940	4401
1	25 Mar. (85)	6 Fri	7 20 0	22 Mar. (82)	3 Tues.	27-7127	903-2427	258-4038	4402
1	25 Mar. (84)	0 Sat	13 32 30	12 Mar. (71)	1 Sun	242-0280	786-7691	240-3177	4403
	25 Mar. (84)	1 Sun	19 45 0	1 Mar. (60)	5 Thur.	117-7114	634-0039	209-4938	4404
	26 Mar. (85)	3 Tues.	1 57 30	20 Mar. (79)	4 Wed.	152-3510	569-9874	260-8035	4405
	25 Mar. (85)	4 Wed.	8 10 0	8 Mar. (68)	1 Sun	28-0344	417-2222	229-9797	4406
	25 Mar. (84)	5 Thur.	14 22 30	25 Feb. (56)	5 Thur.	9903-7177	264-4570	199-1558	4407
	25 Mar. (84)	6 Fri	20 35 0	16 Mar. (75)	4 Wed.	9938-3574	200-4405	250-4656	4408
	26 Mar. (85)	1 Sun	2 47 30	5 Mar. (64)	1 Sun	9814-0408	47-6754	219-6417	4409
	25 Mar. (85)	2 Mon	9 0 0	23 Mar. (83)	0 Sat	9848-6804	983-7588	270-9514	4410
	25 Mar. (84)	3 Tues.	15 12 30	13 Mar. (72)	5 Thur.	62-9956	867-1853	242-8653	4411
	25 Mar. (84)	4 Wed.	21 25 0	3 Mar. (62)	3 Tues,	277-3109	750-7117	214-7792	4412
	26 Mar. (85)	6 Fri	3 37 30	21 Mar. (80)	1 Sun. ,	9973-3187	650-4036	263-3512	4413
	25 Mar. (85)	0 Sat	9 50 0	10 Mar. (70)	6 Fri	187-6339	533-9300	235-2651	4414
	25 Mar. (84)	1 Sun	16 2 30	27 Feb. (58)	3 Tues.	63-3172	381-1648	204 4413	4415
	25 Mar. (84)	2 Mon .	22 15 0	17 Mar. (76)	1 Sun	9759-3250	280-8568	253-6132	4416
	26 Mar. (85)	4 Wed.	4 27 30	7 Mar. (66)	6 Fri	9973-6403	164-3831	224-9271	4417
	25 Mar. (85)	5 Thur.	10 40 0	25 Mar. (85)	5 Thur.	8-2799	100-3667	276-2368	4418
	25 Mar. (84)	6 Fri	16 52 30	14 Mar. (73)	2 Mon	9883-9632	947-6015	245-4130	4419
	25 Mar. (84)	0 Sat	23 5 0	4 Mar. (63)	0 Sat	98-2785	831-1279	217-3269	4420
	26 Mar. (85)	2 Mon .	5 17 30	23 Mar. (82)	6 Fri	132-9181	767-1114	263-6367	4421

TABLE

	i			CONC	URRENT Y	YEAR.	olive and a	
		krans.	ar year	H	M	JOVIAN SAM	IVATSARA.	INTERCALATED (adhika) and suppressed
Kal	i. Saka.	Chaitradi Vikransa.	Mëshidi solar in Bengal,	Kollam.	A.D.	Southern system.	Northern system.	(kshaya)LUNAR MONTHS (true).
1	2	3	3a	4	5	6	7	8
441	2 1243	1378	727	495-96	*1320-21	54 Raudra .	59 Krödhana .	A
441	3 1244	1379	728	496-97	1321-22	55 Durmati .	60 Kshaya .	4 Āshādha .
443	1245	1380	729	497-98	1322-23	56 Dundubhi .	1 Prabhava .	
445	5 1246	1381	730	498-99	1323-24	57 Rudhirödgärin	2 Vibhava .	(60)
445	6 1247	1382	731	499-500	*1324-25	58 Raktāksha .	3 Sukla	2 Vaišākha .
445	7 1248	1383	732	500-01	1325-26	59 Krödhana .	4 Pramóda .	***
445	8 1249	1384	733	501-02	1326-27	60 Kshaya .	5 Prajāpati .	6 Bhādrapada
441	1250	1385	734	502-03	1327-28	1 Prabhava .	6 Angiras .	944
443	0 1251	1386	735	503-04	*1328-29	2 Vibhava .	7 Śrimukha .	an A
443	1 1252	1387	736	504-05	1329-30	3 Sukla	8 Bhāva	4 Áshádha .
443	32 1253	1388	737	505-06	1330-31	4 Pramoda .	9 Yuvan	344
443	33 1254	1389	738	506-07	1331-32	5 Prajāpati .	10 Dhātri† .	
443	34 1255	1390	739	507-08	*1332-33	6 Angiras .	12 Bahudhānya .	3 Jyéshtha .
443	1256	1391	740	508-09	1333-34	7 Śrimukha .	13 Pramāthin .	7 Āsvina
443	36 1257	1392	741	509-10	1334-35	8 Bhaya	14 Vikrama {	10 Pausha (ksh.) 12 Phälguna
443	37 1258	1393	742	510-11	1335-36	9 Yuvan	15 Vrisha	in Funguna)
443	1259	1394	743	511-12	*1336-37	10 Dhātri	16 Chitrabhanu .	444
443	1260	1395	744	512-13	1337-38	11 Iśvara	17 Subhānu .	5 Śrāvaņa .
444	1261	1396	745	513-14	1338-39	12 Bahudhānya .	18 Tăraņa	***
444	1 1262	1397	746	514-15	1339-40	13 Pramāthin .	19 Pärthiva .	***
444	2 1263	1398	747	515-16	*1340-41	14 Vikrama	20 Vyaya	4 Āshādha .
444	3 1264	1399	748	516-17	1341-42	15 Vrisha	21 Sarvajit .	
144	4 1265	1400	749	517-18	1342-43	16 Chitrabhanu .	22 Sarvadhārin .	***
444	5 1266	1401	750	518-19	1343-44	17 Subhānu .	23 Virôdhín .	2 Valšākha .
144	6 1267	1402	751	519-20	*1344-45	18 Tarmpa	24 Vikrita	***
-	-				-	Situation of the section of		-

^{† 11} Isvara_was suppressed in the north.

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		COM	MENCEMENT	OF THE				
s	OLAR YEAR		LUNI-SOLAR		SUNRISE OF		on which	Kali
Day and month, A.D.	Week- day.	Time of true Mesha- samkrünti.	Day and month, A.D.	Week- day.	a.	ь.	ć.	
13	14	17	19	20	23	24	25	1
		н. м. в.						
25 Mar. (85)	3 Tues.	11 30 0	11 Mar. (71)	3 Tues.	8-6015	614-3462	237-8628	4422
25 Mar. (84)	4 Wed.	17 42 30	28 Feb. (59)	0 Sat	9884-2849	461-5811	206-9889	4423
25 Mar. (84)	5 Thur.	23 55 0	19 Mar. (78)	6 Fri	9918-9245	397-5645	-258-2986	4424
26 Mar. (85)	0 Sat	6 7 30	8 Mar. (67)	3 Tues.	9794-6078	244-7993	227-4748	4425
25 Mar. (85)	1 Sun	12 20 0	26 Feb. (57)	1 Sun	8-9231	128-3258	199-3887	4426
25 Mar. (84)	2 Mon	18 32 30	16 Mar. (75)	0 Sat	43-5628	64-3092	250-6985	4427
26 Mar. (85)	4 Wed.	0 45 0	5 Mar. (64)	4 Wed.	9919-2462	911-5441	219-8746	4428
26 Mar. (85)	5 Thur.	6 57 30	24 Mar. (83)	3 Tues,	9953-8858	847-5276	271-1843	4429
25 Mar. (85)	6 Fri	13 10 0	13 Mar. (73)	1 Sun	168-3010	731-0530	243-0082	4430
25 Mar. (84)	0 Sat	19 22 30	2 Mar. (61)	5 Thur.	43-8845	578-2878	212-2744	4431
26 Mar. (85)	2 Mon	1 35 0	21 Mar. (80)	4 Wed,	78-5241	514-2714	263-5841	4432
26 Mar. (85)	3 Tues.	7 47 30	10 Mar. (69)	1 Sun	9954-2074	361-5061	232-7602	4433
25 Mar. (85)	4 Wed.	14 0 0	27 Feb. (58)	5 Thur.	9829-8908	208-7400	202-1364	4434
25 Mar. (84)	5 Thur.	20 12 30	17 Mar. (76)	4 Wed.	9864-5305	144-7245	253-2461	4435.
26 Mar. (85)	0 Sat	2 25 0	7 Mar. (66)	2 Mon	78-8457	28-2509	225-1600	4436
26 Mar. (85)	I Sun	8 37 30	26 Mar. (85)	1 Sun.	113-4853	964-2344	276-4697	4437
25 Mar. (85)	2 Mon	14 50 0	14 Mar. (74)	5 Thur.	9989-1687	811-4702	245-6459	4438
25 Mar. (84)	3 Tues.	21 2 30	4 Mar. (63)	3 Tues.	203-4840	694-9967	217-5598	4439
26 Mar. (85)	5 Thur.	3 15 0	23 Mar. (82)	2 Mon	238-1236	629-9801	268-8696	4440
26 Mar. (85)	6 Fri	9 27 30	12 Mar. (71)	6 Fri	113-8081	478-2149	238-0457	4441
25 Mar. (85)	0 Sat	15 40 0	29 Feb. (60)	3 Tues.	9989-4904	325-4498	207-2219	4442
25 Mar. (84)	1 Sun .	21 52 30	19 Mar. (78)	2 Mon	24-1200	261-4333	259-5315	4443
26 Mar. (85)	3 Tues.	4 5 0	8 Mar. (67)	6 Fri	9899-8134	108-6680	227-7077	4444
26 Mar (85)	4 Wed.	10 17 30	26 Feb. (57)	4 Wed.	114-1286	992-1945	199-6316	4445
25 Mar. (85)	5 Thur.	16 30 0	16 Mar. (76)	3 Tues-	145-7682	G18-1780	250-9314	4446

				CONCUI	RENT Y	EAR		
Kali.	Śaka.	Chaitradi Vilcrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	JOVIAN SAN	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaga) LUNAR MONTHS (true).
1	2	3	3a	4	5	6	4	8
4447 4448	1268 1269	1403 1404	752 753	520-21 521-22	1345-46 1346-47	19 Pārthiva . 20 Vyaya	25 Khara 26 Nandana .	6 Bhàdrapada
4449	1270	1405	754	522-23	1347-48	21 Sarvajit .	27 Vijaya	
4450	1271	1406	755	523-24 524-25	*1348-49	22 Sarvadhārin . 23 Virōdhin .	28 Jaya 29 Manmatha .	4 Āshādha .
4452	1273	1408	757	525-26	1350-51	24 Vikrita	30 Durmukha	***
4453	1274	1409	758	526-27	1351-52	25 Khara	31 Hēmalamba .	2 Valšākha .
4454 4455 4456	1275 1276 1277	1410 1411 1412	759 760 761	527-28 528-29 529-30	*1352-53 1353-54 1354-55	26 Nandana	32 Vilamba	7 Aświna 11 <i>Mōgha</i> (<i>ksh.</i>) 12 Phäiguna
4457	500	1413	762	530-31	1355-56	29 Manmatha .	35 Plava	- 0
4458		1414	763	531-32 532-33	*1356-57 1357-58	30 Durmukba .	36 Subhakrit . 37 Söbhana .	5 Srāvaņa .
4459		1415	765		1358-59	32 Vilamba .	37 Sobhana . 38 Krödhin .	***
4461	20000	1417	766		1359-60	33 Vikārin	39 Viávāvasu .	3 Jyeshtha .
4463	(DESCRIPTION	1418	767	C I III WINDS	*1360-61	34 Särvarin .	Comment of the second	
446	1284	1419	768	536-37	1361-62	35 Plava	41 Plavaéga .	- 100
446	4 1285	1420	769	537-38	1362-63	36 Subhakrit .	42 Kilaka	2 Vaišākha ,
446	5 1286	1421	770	538-39	1363-64	37 Söbhana .	43 Saumya. ,	500
446	6 1287	1422	771	539-40	*1364-65	38 Krödhin .	44 Sådhäraņa .	6 Bhādrapada
446	7 1288	1423	775	2 540-41	1365-66	39 Viśvāvasu .	45 Virôdhakrit .	
446	C. Corri	I STATE OF	3000		1366-67	The Particular of the	The second of the second	(2) (27)
448	1100				1367-68	a Stance of		4 Āshādha .
447		Ward.	-	A Book	*1368-69	1 10000	100 400	***
447	1 1292	142	776	544-45	1389-70	43 Sanriya	49 Rākmasa .	2000

LXI-Contd.

				OF THE	MENCEMENT (COM		
Kali.	N WHICH		SUNRISE OF SUKLA 1 E		LUNI-SOLAR Y		DLAR YEAR.	Sc
	c.	b.	a.	Week- day.	Day and month, A.D.	Time of true Mësha- samkränti.	Week- day,	Day and month, A.D.
1	25	24	23	20	19	17	14	13
444	220-1075	775-4128	24-4516	0 Sat	5 Mar. (64)	H. M. S. 22 42 30	6 Fri.	25 Mar. (84)
444	271-4172	711-3963	59-0912	6 Fri	24 Mar. (83)	4 55 0	1 Sun	26 Mar. (85)
444	240-5933	558-6312	9934-7747	3 Tues	13 Mar. (72)	11 7 30	2 Mon.	26 Mar. (85)
445	209-7695	405-8660	9810-4580	0 Sat	1 Mar. (61)	17 20 0	3 Tues.	25 Mar. (85)
445	261-0792	341-8494	9845-0976	6 Fri.	20 Mar. (79)	23 32 30	4 Wed.	25 Mar. (84)
445	230-2554	189-0843	9720-7810	3 Tues.	9 Mar. (68)	5 45 0	6 Fri	26 Mar. (85)
445	202-1693	72-6107	9935-0962	I Sun	27 Feb. (58)	11 57 30	0 Sat	26 Mar. (85)
445	253-4790	8-5942	9969-7359	0 Sat	17 Mar. (77)	18 10 0	1 Sun.	5 Mar. (85)
445	225-3929	892-1206	184-0511	5 Thur.	7 Mar. (66)	0 22 30	3 Tues.	6 Mar. (85)
445	276-7026	828-1042	218-6907	4 Wed.	26 Mar. (85)	6 35 0	4 Wed. :	6 Mar. (85)
445	245-8788	675-3389	94-3741	1 Sun	15 Mar. (74)	12 47 30	5 Thur.	6 Mar. (85)
445	215-4549	522-5737	9970-0575	5 Thur.	3 Mar. (63)	19 0 0	6 Fri	5 Mar. (85)
445	266-3647	458-5573	4-6971	4 Wed.	22 Mar. (81)	1 12 30	1 Sun	66 Mar. (85)
446	235-5408	305-7921	9880-3805	1 Sun	11 Mar. (70)	7 25 0	2 Mon.	6 Mar. (85)
446	204-7170	153-0269	9756-0639	5 Thur.	28 Feb. (59)	13 37 30	3 Tues.	6 Mar. (85)
446	256-0266	89-0104	9790-7035	4 Wed.	18 Mar. (78)	19 50 0	4 Wed.	25 Mar. (85)
446	227-0406	972-5368	5-0188	2 Mon	8 Mar. (67)	2 2 30	6 Fri	6 Mar. (85)
446	199-8545	856-0632	219-3338	0 Sat	26 Feb. (57)	8 15 0	0 Sat	6 Mar. (85)
446	251-1642	792-0468	253-9737	6 Fri	17 Mar. (76)	14 27 30	1 Sun .	6 Mar. (85)
446	220-3404	639-2816	129-6571	3 Tues.	5 Mar. (65)	20 40 0	2 Mon. ,	5 Mar. (85)
446	271-6501	575-2651	164-2967	2 Mon	24 Mar. (83)	2 52 30	4 Wed.	6 Mar. (85)
446	241-1180	422-4999	39-9801	6 Fri	13 Mar. (72)	9 5 0	5 Thur.	6 Mar. (85)
445	210-0024	269-7347	9915-6635	3 Tues	2 Mar. (61)	15 17 30	6 Fri	6 Mar. (85)
447	161-3121	205-7182	9950-3031	2 Mon	20 Mar. (80)	21 30 0	0 Sat	5 Mar. (85)
44.5	130-4883	52-9530	9925-9865	6 Fri .	9 Mar. (68)	3 42 30	2 Mor	6 Mar. (85)

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TABLE

Kali. Saka. in in in in in in in in in in in in in	Weenlyddi solur Aear Weenlyddi	ollam. 4 45-46 46-47	A CONTRACTOR OF THE PARTY OF TH	Jovian San Sonthern system. 6 44 Sådhårana	Northern system. 7 50 Anala	Intercalated (adhika) and suppressed (kahaya) Lunar Montes (true). 8
1 2 3 4472 1293 1428 4473 1294 1429	Wenhird Solar Wan Wan Wan Wan Wan Wan Wan Wan Wan Wan	4 45-46 46-47	5 1370-71	Sonthern system. 6 44 Sådhäraņa .	Northern system. 7 50 Anala	(adhika) and suppressed (kshaya) LUNAR MONTHS (true).
1 2 3 4472 1293 1428 4473 1294 1429	3a 777 5-778 5 779 5 780 5	4 45-46 46-47	5 1370-71	6 44 Sådhärana	system. 7 50 Anala	MONTHS (true).
4472 1293 1428 4473 1294 1429	777 5- 778 5- 779 5- 780 5-	45-46	1370-71	44 Sådhårapa .	50 Anala	
4473 1294 1429	778 5 779 5 780 5	46-47	A CONTRACTOR OF THE PARTY OF TH	NAME AND ADDRESS OF THE OWNER.	SAMESTANCE OF THE STATE	3 Jyështha .
William Control Control	779 5 780 5	Constitution of	1371-72	AND DESCRIPTION OF THE PARTY OF		
4474 1295 1430	780 5	47-48		45 Virodhakrit .	51 Pingala .	***
	540		1372-73	46 Paridhāvin	52 Kālayukta	6 Bhādrapada
4475 1296 1431		548-49	1373-74	47 Pramādin .	53 Siddhārthin	9990
4476 1297 1432	781 5	549-50	1374-75	48 Ānanda ·	54 Raudra .	· · · ·
4477 1298 1433	782	550-51	1375-76	49 Råkshasa .	55 Durmati .	5 Srāvaņa .
4478 1299 1434	783	551-52	*1376-77	50 Anala	56 Dundubhi .	dist.
4479 1300 1435	784	552-53	1377-78	51 Pingala -	57 Rudhirödgårin	(***)
4480 1301 1436	785	553-54	1378-79	52 Kālayukta .	58 Raktāksha .	3 Jyështha .
4481 1302 1437	786	554-55	1379-80	53 Siddhārthin .	59 Krôdhana .	
4482 1303 1438	787	555-56	*1380-81	54 Raudra .	60 Kshaya .	***
4483 1304 1439	788	556-57	1381-82	55 Durmati .	1 Prabhava .	2 Vaišākha ,
4484 1305 1440	789	557-58	1382-83	56 Dundubhi .	2 Vibhava .	
4485 1306 1441	790	558-59	1383-84	57 Rudhirödgårin	3 Sukla	6 Bhādrapada
4486 1307 1442	791	559-60	*1384-85	58 Raktāksha	4 Pramôda .	444
4487 1308 1443	792	560-61	1385-86	59 Krödhana -		494
4488 1309 1444	793	561-62	1386-87	60 Kahaya		4 Āshādha
4489 1310 1445	794	562-63	1387-88	1 Prabhava		Keer I III
4490 1311 1446	795	563-64	*1388-89	2 Vibhava		
4491 1312 144	7 796	564-65	1389-90		THE PARTY OF THE P	3 Jyeshtha .
4492 1313 144	8 797	565-66	1390-91	Andrew Miles		
4493 1314 144	9 798	566-67	1391-92	1000000	The same of the sa	
4494 1315 145	0 799	567-68	*1392-93	- Lugard Cont		
4495 1316 145	1 800	568-69	1303-94			
4496 1317 145	2 801	569-70	1394-95	8 Bhava .	. 14 Vikrama	5 Srāvaņa .

LXI-Contd.

				F THE	ENCEMENT O	COMM		
Kali,	WHICH	IVIL DAY ON 08).	UNBISE OF C	ear (mean s Chattra 5	LUNI-SOLAR YI		LAR YEAR.	So
	c.	b.	a.	Week- day.	Day and month, A.D.	Time of true Mesha- samkranti.	Week- day.	Day and month, A.D.
1	25	24	23	20	19	17	14	13
						H. M. S.		
4472	202-4022	936-4794	40-3017	4 Wed.	27 Feb. (58)	9 55 0	3 Tues.	26 Mar. (85)
4473	253-7119	872-4630	74-9414	3 Tues.	18 Mar. (77)	16 7 30	4 Wed.	26 Mar. (85)
4474	225-6258	755-9894	289-2566	1 Sun	7 Mar. (67)	22 20 0	5 Thur.	25 Mar. (85)
4470	274-1977	655-6813	9985-2644	6 Fri	25 Mar. (84)	4 32 30	0 Sat	26 Mar. (85)
447	246-1117	539-2077	199-5796	4 Wed.	15 Mar. (74)	10 45 0	1 Sun	26 Mar. (85)
447	215-2878	386-4425	75-2629	1 Sun	4 Mar. (63)	16 57 30	2 Mon.	26 Mar. (85)
4478	263-8598	286-1344	9771-2707	6 Fri	21 Mar. (81)	23 10 0	3 Tues.	25 Mar. (85)
447	235-7737	169-6608	9985-5859	4 Wed.	11 Mar. (70)	5 22 30	5 Thur.	26 Mar. (85)
448	204-9499	16-8957	9861-2694	1 Sun	28 Feb. (59)	11 35 0	6 Fri	26 Mar. (85)
448	256-2595	952-8791	9895-9080	0 Sat	19 Mar. (78)	17 47 30	0 Sat	26 Mar. (85)
448	228-1735	836-4055	110-2242	5 Thur.	8 Mar. (68)	0 0 0	2 Mon	26 Mar. (86)
448	197-6414	683-6404	9985-9076	2 Mon	25 Feb. (56)	6 12 30	3 Tues.	26 Mar. (85)
448	248-6594	619-6238	20-5472	1 Sun	16 Mar. (75)	12 25 0	4 Wed	26 Mar. (85)
448	217-8355	466-8587	9896-2306	5 Thur.	5 Mar. (64)	18 37 30	5 Thur.	26 Mar. (85)
448	269-1452	402-8422	9930-8702	4 Wed.	23 Mar. (83)	0 50 0	0 Sat	26 Mar. (86)
448	238-3213	250-0770	9806-5536	1 Sun	12 Mar. (71)	7 2 30	1 Sun.	26 Mar. (85)
448	210-2353	133-6034	20-8689	6 Fri	2 Mar. (61)		188	26 Mar. (85)
448	261-5430	69-5869	55-5085	5 Thur.	21 Mar. (80)	19 27 30	123.50	26 Mar. (85)
445	230-7212	916-8218	9931-1919	2 Mon	9 Mar. (69)	1 40 0		26 Mar. (86)
449	202-6351	800-3481	145-5071	0 Sat.	7.5 - 1.5 - 2.7 - 2.7	70.1710		26 Mar. (85)
445	251-2070	736-0401	180-1467	6 Fri		The state of the s		26 Mar. (85)
445	223-1209	583-5065	55-8301	3 Tues.	A STATE OF THE PARTY OF THE PAR			26 Mar. (85)
44	274-4306	519-5501	90-4698	2 Mon.	100 100	2 30 0	C. S. Lander	26 Mar. (86)
8 44	243-6068	366-7848	The Marketon	6 Fri.	Marie Marie	8 42 30	1	26 Mar. (85)
	212-7829	214-0196	9841-8365	3 Tues.	CONTRACT USES	14 55 6	O Library	26 Mar. (85)

TABLE

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				CONCU	RRENT Y	EAR.		
ind.		krama.	solar year			Jovian Sa	MVATSARA.	INTERCALATED (adhika) and SUPPRESSED
Kali,	Šaka.	Chaitradi Vikrama.	Mëshadi so in Bengal.	Kollam,	A.D.	Southern system.	Northern system.	(kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6	7	// 8
4497	1318	1453	802	570-71	1395-96	9 Yavan	15 Vrisha	***
4498	1319	1454	803	571-72	*1396-97	10 Dhatri	16 Chitrabhānu .	
4499	1320	1455	804	572-73	1397-98	11 Isvara	17 Subhānu .	3 Jyështha .
4500	1321	1456	805	573-74	1398-99	12 Bahudhānya .	18 Tāraņa .	8 Kärttika
4501	1322	1457	806	574-75	1399-1400	13 Pramathin	19 Parthiva	10 Pausha (kah.) 5
4502	1323	1458	807	575-76	*1400-01	14 Vikrama	20 Vyaya .	1 Chaitra .
4503	1324	1459	808	576-77	1401-02	15 Vrisha	21 Sarvajit	-
4504	1325	1460	809	577-78	1402-03	16 Chitrabhānu -	22 Sarvadhārin .	6 Bhādrapada
4505	1326	1461	810	578-79	1403-04	17 Subhānu	23 Virôdhin	
4506	1327	1462	811	579-80	*1404-05	18 Taraņa	24 Vikrita	langth of
4507	1328	1463	812	580-81	1405-06	19 Pärthiva .	25 Khara	4 Āshādha
4508	1329	1464	813	581-82	1406-07	20 Vyaya	26 Nandana .	(Media)
4509	1330	1465	814	582-83	1407-08	21 Sarvajit .	27 Vijaya	200
4510	1331	1466	815	583-84	*1408-09	22 Sarvadhārin .	28 Jaya	3 Jyështha .
4511	1332	1467	816	584-85	1409-10	23 Virodhin .	29 Manmatha .	***
4512	1333	1468	817	585-86	1410-11	24 Vikrita	30 Durmukha .	7 Aśvina .
4513	1334	1469	818	586-87	1411-12	25 Khara	31 Hēmalamba .	11 - 24
4514	1335	1470	819	587-88	*1412-13	26 Nandana .	32 Vilamba .	400
4515	1336	1471	820	588-89	1413-14	27 Vijaya	33 Vikārin	4 Āshādha .
4516	1337	1472	821	589-90	1414-15	28 Jaya	34 Sărvarin .	96
4517	1338	1473	822	590-91	1415-16	29 Manmatha	35 Plava	715
4518	1339	1474	823	591-92	*1416-17	30 Durmukha .	36 Subhakrit† .	3 Jyështha .
4519	134C	1475	E24	592-83	1417-18	31 Hēmalamba .	38 Krödhin	8 Kārttika γ
4520	1341	1476	825	593-94	1418-19	32 Vilamba .	39 Viśravasu	11 Māgha (ksh.) 12 Phālguna
4521	1342	1477	826	594-95	1419-20	33 Vikārin .	40 Parābhava .	12 Phaiguna

† 37 Sibhana was suppressed in the north.

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				FTHE	ENCEMENT O	COMM		
Kali	which	IVIL DAY OR	UNRISE OF C	CHAITRA	LUNI-SOLAR Y		LAR YEAR.	So
	c.	b.	a.	Week- day.	Day and month, A.D.	Time of true Měsha- samkränti.	Week-	Day and nonth, A.D.
1	25	24	23	20	19	17	-14	13
4497	264-0927	150-0032	9876-4762	2 Mon	22 Mar. (81)	H. M. S. 21 7 30	6 Fri.	
449	236-0066	33-5295	90-7914	0 Sat	11 Mar. (71)	3 20 0		26 Mar. (85)
449	205-1827	880-7644	9966-4748	4 Wed.	28 Feb. (59)	9 32 30	I Sun	26 Mar. (86)
450	256-4924	816-7479	1-1144	3 Tues.	19 Mar. (78)	15 45 0	3 Tues.	26 Mar. (85)
450	228-4064	700-2743	215-4296	1 Sun.	9 Mar. (68)	21 57 30	4 Wed.	26 Mar. (85)
450	197-5825	547-5092	91-1130	5 Thur.	26 Feb. (57)	4 10 0	- V- C- C- C- C- C- C- C- C- C- C- C- C- C-	26 Mar. (85)
450	248-8923	483-4926	125-7526	4 Wed.	16 Mar. (75)	10 22 30	6 Fri	26 Mar. (86)
450	218-0683	330-7275	1-4360	1 Sun	5 Mar. (64)	16 35 0	1 Sun.	26 Mar. (85)
450	269-3781	266-7110	36-0756	0 Sat	24 Mar. (83)	22 47 30	2 Mon.	26 Mar. (85)
450	238-5542	113-9457	9911-7590	4 Wed.	12 Mar. (72)	5 0 0	4 Wed.	26 Mar. (85)
450	210-4682	997-4722	126-0743	2 Mon	2 Mar. (61)	11 12 30	5 Thur.	26 Mar. (86)
450	261-7779	933-4557	160-7139	1 Sun	21 Mar. (80)	1000	6 Fri	26 Mar. (85)
450	230-9541	780-6906	36-3973	5 Thur.	10 Mar. (69)	10 70		26 Mar. (85)
45	202-8680	664-2169	250-7125	3 Tues.	28 Feb. (59)		0 Sat 2 Mon .	26 Mar. (85)
45	251-4308	563-9089	9946-7203	1 Sun	17 Mar. (76)	12 2 30	- The state of the	26 Mar. (86)
45	220-6160	411-1437	9822-4037	5 Thur.	6 Mar. (65)		3 Tues.	26 Mar. (85)
45	271-9257	347-1271	9857-0433	4 Wed.	25 Mar. (84)	3 2 2	6 Fri.	26 Mar. (85)
4	241-1019	194-3620	9732-7267	1 Sun.	13 Mar. (73)	6 40 0	0 Sat.	27 Mar. (86)
45	213 /161	77-8884	9947-0419	6 Fri	The state of the s		0025	26 Mar. (86)
3 45	264-3256	13-8720	9981-6815	5 Thur.			100000	26 Mar. (85)
45	236-2394	897-3983	195-9968	3 Tues.	200 1000	1 17 30		26 Mar. (85)
45	205-4156	744-6333	71-6802	0 Sat.		7 30 (27 Mar. (86)
3 45	256-7253	680-6167		6 Fri.	100 30 140	14 000	O CHARLES	26 Mar. (86) 26 Mar. (85)
5 45	925-9015	527-8514	9989-0031	3 Tues.	2 22 1000			26 Mar. (85
2 45	277-2112	363-8350	16-6427	2 Mon.	TOTAL NAME AND ADDRESS OF	. 2 7 30	U Date	27 Mar. (86

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				CONCU	RRENT Y	EAR.	munica de la companya della companya della companya de la companya de la companya della companya	
Kali,	Saka.	Chaltradi Vikrama	Meshadi solar year in Bengal.	Kollam.	A,D.	Jovian Sa Southern system.	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTES (true).
1	2	3	3a	4	5	6	7	8
4522 4523 4524 4525 4526 4527 4528 4530 4531 4531 4531 4531 4531 4531 4531 4531	1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 7 1358 3 1359 0 1360 0 1361 1 1362 2 1363	3 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1490 1491 1492 1493 1494 1495 1496 1497 1498	827 828 829 830 831 832 833 834 835 836 837 838 840 841 842 843 844 845 846 847	595-96 596-97 597-98 598-99 599-600 600-01 601-02 602-03 603-04 604-05 605-06 606-07 607-08 608-09 609-10 610-11 611-12 612-13 613-14 614-15 615-16	*1420-21 1421-22 1422-23 1423-24 *1424-25 1425-26 1426-27 1427-28 *1428-29 1429-30 1430-31 1431-32 *1432-33 1433-34 1434-35 1436-37 1436-37 1437-38 1438-39 1439-40 *1440-41 1441-42	34 Sārvarin . 35 Plava 36 Subhakrit . 37 Sōbhana . 38 Krōdhin . 39 Viśvāvasu . 40 Parābhava . 41 Plavanga . 42 Kilaka . 43 Saumya . 44 Sōdhāraņa . 45 Virōdhakrit . 46 Paridhāvin . 47 Pramādin . 48 Ānanda . 49 Rākshasa . 50 Anala 51 Pingala . 52 Kālayukta . 53 Sōddhārthin .	41 Plavanqu . 42 Kilaka 43 Saumya 44 Sādhāraņa . 45 Virōdhakrit . 46 Paridhāvin . 47 Pramādin . 48 Ānanda 49 Rākshasa 50 Ānala 51 Pingala 52 Kālayukta 53 Siddhārthin 54 Raudra 55 Durmati 56 Dundubhi 57 Rudhirōdgārin . 58 Raktāksha 59 Krōdhana 60 Kshaya	5 Srāvaņa
454	100	1500	848	617-18	1442-43	55 Durmati .	3 Sukla	***
454	2000	1501	850	618-19	1443-44	57 Rudhirödgärin	4 Premoda .	4 Āshādba .
4.54	1367	1502	851	619-20	*1444-45	58 Raktāksha .	5 Prajápati .	C****

LXI-Contd.

		COM	MENCEMENT	OF THE				
S	OLAB YEAR.		LUNI-SOLAR		SUNRESE OF SURLA I ES		os which	Kal
Day and nonth, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month , A.D.	Week- day.	a.	ь.	G.	100
13	14	17	19	20	23	24	25	1
26 Mar. (86)	3 Tues.	H. M. S. 8 20 0	15 Mar. (75)	6 Fri	9892-3261	311-0698	246-3894	452
26 Mar. (85)	4 Wed.	14 32 30	4 Mar. (63)	3 Tues.	9768-0095	157-3046	215-5634	452
26 Mar. (85)	5 Thur.	20 45 0	23 Mar. (82)	2 Mon	9802-6491	94-2881	266-8732	452
27 Mar. (86)	0 Sat	2 57 30	13 Mar. (72)	0 Sat	16-9644	977-8145	238-7871	452
6 Mar. (86)	1 Sun	9 10 0	2 Mar. (62)	5 Thur.	231-2797	861-3410	210-7011	452
6 Mar. (85)	2 Mon.	15 22 30	21 Mar. (80)	4 Wed.	265-9193	796-3244	262-0208	452
6 Mar. (85)	3 Tues.	21 35 0	10 Mar. (69)	I Sun	141-6027	644-5593	231-1870	452
7 Mar. (86)	5 Thur.	3 47 30	27 Feb. (58)	5 Thur.	17-2860	491-7941	200-3631	452
26 Mar. (86)	6 Fri	10 0 0	17 Mar. (77)	4 Wed.	51-9257	427-7776	251-6727	453
26 Mar. (85)	0 Sat.	16 12 30	6 Mar. (65)	1 Sun	9927-6091	275-0124	220-8489	453
6 Mar. (85)	1 Sun .	22 25 0	25 Mar. (84)	0 Sat	9962-2487	210-9959	272-1586	453
7 Mar. (86)	3 Tues.	4 37 30	14 Mar. (73)	4 Wed.	9837-1321	58-2307	241-3348	453
6 Mar. (86)	4 Wed.	10 50 0	3 Mar. (63)	2 Mon	52-2473	941-7571	213-2487	453
26 Mar. (85)	5 Thur.	17 2 30	22 Mar. (81)	1 Sun	86-8870	877-7407	264-5585	453
6 Mar. (85)	6 Fri	23 15 0	12 Mar. (71)	6 Fri	301-2022	761-2671	236-4723	453
7 Mar. (86)	1 Sun	5 27 30	1 Mar. (60)	3 Tues.	176-8856	608-5019	205-6485	453
6 Mar. (86)	2 Mon	11 40 0	18 Mar. (78)	1 Sun	9872-8933	508-1938	254-2204	453
6 Mar. (85)	3 Tues.	17 52 30	8 Mar. (67)	6 Fri	87-2086	391-7202	226-1344	453
7 Mar. (86)	5 Thur.	0 5 0	26 Mar. (85)	4 Wed.	9783-2164	291-4121	274-7063	454
7 Mar. (86)	6 Fri. ,	6 17 30	16 Mar. (75)	2 Mon	9997-5316	174-9385	246-6203	454
6 Mar. (86)	0 Sat	12 30 0	4 Mar. (64)	6 Fri	9873-2150	22-1734	216-7964	454
6 Mar. (85)	1 Sun	18 42 30	23 Mar. (82)	5 Thur.	9907-8546	958-1569	267-1061	454
7 Mar. (86)	3 Tues.	0 55 0	13 Mar. (72)	3 Tues.	122-4699	841-6932	239-0200	454
7 Mar. (86)	4 Wed.	7 7 30	2 Mar. (61)	0 Sat	9997-8533	688-9181	208-1962	454
6 Mar. (86)	5 Thur.	13 20 0	20 Mar. (80)	6 Fri	32-4928	624-9016	259-5059	451

rain			Т		CONCU	RRENT Y	EAR.		
K	ali.	Saka.	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	JOVIAN SAI	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTHS (true).
-	1	2	3	e William	4	5	6	7	- 8
-		27/12/2							
3	547	1368	1503	852	620-21	1445-46	59 Krôdhana .	6 Angiras .	
14	548	1369	1504	853	621-22	1446-47	60 Kshaya .	7 Śrimukha .	2 Vaišākha .
4	549	1370	1505	854	622-23	1447-48	1 Prabhava .	8 Bhāva	122
4	1550	1371	1506	855	623-24	*1448-49	2 Vibhava .	9 Yuvan	6 Bhadrapada
4	1551	1372	1507	856	624-25	1449-50	3 Sukla	10 Dhātri	200
1	1552	1373	1508	857	625-26	1450-51	4 Pramôda .	11 Iśvara	1200
- 3	1553	1374	1509	858	626-27	1451-52	5 Prajāpati .	12 Bahudhānya .	4 Ashāḍha
- 9	1554	1375	1510	859	627-28	*1452-53	6 Angiras	13 Pramāthin .	52m
0.002	4555	1376	1511	860	628-29	1453-54	7 Srimukha .	14 Vikrama .	.009
É	4556	1377	1512	861	629-30	1454-55	8 Bhāva	15 Vrisha	3 Jyështha .
į.	4557	1378	1513	862	630-31	1455-56	9 Yuvan	16 Chitrabhanu .	0 Pr. 117
	4558	1379	1514	863	631-32	*1456-57	10 Dhātri	17 Subhānu	8 Kārttika 10 Pausha (ksh.)
	4559	1380	1515	864	632-33	1457-58	11 Iśvara	18 Tarana .	12 Phälguna
	4560	1381	1516	865	633-34	1458-59	12 Bahudhānya .	19 Pärthiva .	2
	4561	1382	1517	866	634-35	1459-60	13 Pramāthin .	20 Vyaya	5 Śrāvaņa .
	4582	1333	1518	867	635-36	*1460-61	14 Vikrama	21 Sarvajit	>+++
	4563	1 84	1519	868	636-37	1461-62	15 Vrisha	22 Sarvadhārin .	(***)
	4554	1185	1520	869	637-38	1462-63	16 Chitrabhānu .	23 Virôdhin ,	4 Ashādha .
	4565	1186	1531	870	638-39	1463-64	17 Subhānu .	24 Vikrita	
	4566	1387	1522	871	639-40	*1464-65	18 Tāraņa	25 Khara	***
	4567	1388	1523	872	640-41	1465-66	19 Pärthiva .	26 Nandana .	2 Vaišākha .
	4564	1389	1524	873	641-42	1466-67	20 Vyaya	27 Vijaya	
	4569	1200	1525	874	642-43	1467-68	21 Sarvajit .	28 Jaya	6 Bhādrapada
	4570	1391	1526	875	643-44	*1468-69	22 Sarvadhārin .	29 Manmatha .	
	4571	1392	1527	876	644-45	1469-70	23 Virôdhin .	30 Durmukha .	

LXI-Contd.

		COM	IMENCEMENT	OF THE		L W				
8	SOLAR YEAR		LUNI-SOLAR	LUNI-SOLAR YEAR (MEAN SUNBISE OF CIVIL DAY ON WHICH CHAITBA SUKLA 1 ENDS).						
Day and month, A.D.	Week- day.	Time of true Měsha- samkränti.	Day and month, A.D.	Week- day.	a,	ь.	c,			
13	14	17	19	20	23	24	25	1		
00.35 (00)		H. M. S.			20000000	Sagurati	1955			
26 Mar. (85)	6 Fri	19 32 30	9 Mar. (68)	3 Tues	9908-1762	472-1363	228-6821	4547		
27 Mar. (86)	1 Sun	1 45 0	26 Feb. (57)	0 Sat	9784-8596	319-3712	197-8582	4548		
27 Mar. (86)	2 Mon	7 57 30	17 Mar. (76)	6 Fri	9818-4993	255-3547	249-1679	4549		
26 Mar. (86)	3 Tues	14 10 0	6 Mar. (66)	4 Wed, .	32-8145	138-8812	22 0818	4550		
26 Mar. (85)	4 Wed	20 22 30	25 Mar. (84)	3 Tues	67-4541	74-8646	272-3915	4551		
27 Mar. (86)	6 Fri	2 35 0	14 Mar. (73)	0 Sat	9943-1375	922-0995	241-5677	4552		
27 Mar. (88)	0 Sat	8 47 30	4 Mar. (63)	5 Thur	157-4527	805-6259	213-4816	4553		
26 Mar. (88)	1 Sun	15 0 0	22 Mar. (82)	4 Wed	192-0924	741-6094	264-7914	4554		
26 Mar. (85)	2 Mon	21 12 30	11 Mar. (70)	1 Sun	67-7757	588-8442	233-9674	4555		
27 Mar. (86)	4 Wed	3 25 0	28 Feb (59)	5 Thur	9943-4591	436-0790	203-1436	4556		
27 Mar. (86)	5 Thur	9. 37 30	19 Mar. (78)	4 Wed	9978-0987	372-0625	254-4533	4557		
26 Mar. (86)	6 Fri	15 50 0	7 Mar. 37)	1 Sun	9853-7821	219-2973	223-6295	4558		
26 Mar. (85)	0 Sat	22 2 30	25 Mar. (85)	0 Sat	9888-4218	155-2809	274-9392	4559		
27 Mar. (86)	2 Mon	4 17 0	16 Mar. (75)	5 Thur	102-7370	38-8073	246-8532	4560		
27 Mar. (86)	3 Tues	10 27 30	5 Mar. (64)	2 Mon	9978-4204	885-0421	216-0293	4561		
26 Mar. (86)	4 Wed	16 40 0	23 Mar. (83)	1 Sun	13-0600	822-0256	267-3390	4562		
26 Mar. (85)	5 Thur	22 52 30	13 Mar. (72)	6 Fri	227-3753	705-5520	239-2529	4563		
27 Mar. (86)	0 Sat	5 5 0	2 Mar. (61)	3 Tues	103-0587	552-7868	208-4291	4564		
27 Mar. (86)	1 Sun	11 17 30	21 Mar. (80)	2 Mon	137-6983	488-7703	250-7388	4565		
26 Mar. (86)	2 Mon	17 30 0	9 Mar. (69)	6 Fri	13-3817	336-0051	228-9150	4566		
26 Mar. (85)	3 Tues	23 42 30	26 Feb. (57)	3 Tues	9889-0651	183-2400	198-0911	4567		
27 Mar. (86)	5 Thur	5 55 0	17 Mar. (76)	2 Mon	9923-7047	119-2214	249-4008	4568		
27 Mar. (86)	6 Fri	12 7 30	7 Mar. (66)	0 Sat	138-0199	2-7499	221-3147	4569		
26 Mar. (86)	0 Sat	18 20 0	25 Mar. (85)	6 Fri	172-6596	938-7334	272-6241	4570		
27 Mar. (86)	2 Mon	0 32 30	14 Mar. (73)	3 Tues.	48-3430	785-9652	241 8000	4571		

TABLE

				CONCL	RRENT Y	EAR.		
Kali.	Saka.	Chaitradi Vikrama.	Mëshiidi solar year in Bengal.	Kollam.	A.D.	JOVIAN S	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTHS (true)
1	2	3	3a	4	5	6	7	8
4572 4573 4574 4575 4576	1393 1394 1395 1396 1397	1528 1529 1530 1531 1532	877 878 879 880 881	645-46 646-47 647-48 648-49 649-50	1470-71 1471-72 *1472-73 1473-74 1474-75	24 Vikrita	31 Hēmalamba . 32 Vilamba . 33 Vikārin . 34 Sārvarin . 35 Plava .	4 Āshāḍha
4577	1398	1533	882	650-51	1475-76	29 Manmatha .	36 Subhakrit {	7 Āsvina 10 Pausha (ksh.) }
4578	1399	1534	883	651-52	*1476-77	30 Durmukha .	37 Söbhana .	12 Phälguna
4579	1400	1535	884	652-53	1477-78	31 Hēmalamba .	38 Krödhin .	11 (300 11)
4580	1401	1536	885	653-54	1478-79	32 Vilamba .	39 Višvāvasu .	5 Śrāvaņa .
4581	1402	1537	886	654-55	1479-80	33 Vikārin	40 Parābhava .	***
4582 4583	1403	1538	887	655-56	*1480-81	34 Sărvarin .	41 Plava nga .	TO DESCRIPTION OF
4584	1404	1540	888	656-57 657-58	1481-82	35 Plava	42 Kilaka	4 Āshādha .
4585	1406	1541	890	658-59	1483-84	36 Subhakrit	43 Saumya . 44 Sādhāra o a .	***
4586	1407	1542	891	659-60	*1484-85	00.35 - 11 -	40 377 4 31 1 14	1 Chaitra
4587	1408	1543	892	660-61	1485-86	39 Viávāvasu .	46 Paridhavin	
4588	1409	1544	893	661-62	1486-87	40 Parābhava	47 Pramādi n	6 Bhādrapada
4589	1410	1545	894	662-63	1487-88	41 Plavanga	48 Ånanda	
4590	1411	1546	895	663-64	*1488-89	42 Kilaka	49 Rākshasa .	
4591	1412	1547	896	664-65	1489-90	43 Saumya .	50 Anala	4 Āshādha .
4592	1413	1548	897	665-66	1490-91	44 Sādhāraņa .	51 Pingala .	***
4593	1414	1549	898	666-67	1491-92	45 Virôdhakrit .	52 Kālayukta	
4594	1415	1550	899	667-68	*1492-93	46 Paridhāvin .	53 Siddhärthin .	2 Vaišākha .
4595	1416	1551	900	668-69	1493-94	47 Pramādin	54 Raudra .	1 1 1 mm
96	1417	1552	901	669-70	1494-95	48 Ānanda .	55 Durmati .	6 Bhādrapada .

LXI-Contd.

	414	COMM	ENCEMENT O	F THE			10000	
So	LAR YEAR.		LUNI-SOLAR Y	EAR (MEAN S CHAITBA SI	SUNRISE OF CURLA 1 ENI	NVIL DAY O	N WHICH	Kali.
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a.	ь.	c	
13	14	. 17	19	20	23	24	25	1
27 Mar. (86)	3 Tues.	H M. 8.	4 Mar. (63)	1 Sun	262-6582	669-4946	213-7145	4572
27 Mar. (86)	4 Wed	12 57 30	22 Mar. (81)	6 Fri	9958-6660	569-1865	262-2865	4573
26 Mar. (86)	5 Thur.	19 10 0	10 Mar. (70)	3 Tues.	9838-3494	416-4214	231-4626	4574
27 Mar. (86)	0 Sat	1 22 30	28 Feb. (59)	1 Sun	48-6646	299-9477	203-3765	4575
27 Mar. (86)	1 Sun	7 35 -0	18 Mar. (77)	6 Fri	9744-6724	199-6397	251-9484	4576
27 Mar. (86)	2 Mon	13 47 30	8 Mar. (67)	4 Wed.	9958-9875	83-1661	223-8624	4577
26 Mar. (86)	3 Tues.	20 0 0	26 Mar. (86)	3 Tues.	9993-6272	19-1496	275-1721	4578
27 Mar. (86)	5 Thur.	2 12 30	16 Mar. (75)	1 Sun	207-9424	902-6760	247-0861	
27 Mar. (86)	6 Fri	8 25 0	5 Mar. (64)	5 Thur.	83-6259	749-9109	216-2622	4580
27 Mar. (86)	0 Sat	14 37 30	24 Mar. (83)	4 Wed.	118-2654	685-8943	267-5720	4581
26 Mar. (86)	1 Sun	20 50 0	12 Mar. (72)	1 Sun .	9993-9488	533-1291	236-7480	4582
27 Mar. (86)	3 Tues.	3 2 30	1 Mar. (60)	5 Thur.	9869-6322	380-3640	205-9242	458
27 Mar. (86)	4 Wed.	9 15 0	20 Mar. (79)	4 Wed.	9904-2718	316-3474	257-2339	458
27 Mar. (86)	5 Thur.	15 27 30	9 Mar. (68)	1 Sun	9779-9552	163-5822	226-4101	458
26 Mar. (86)	6 Fri	21 40 0	27 Feb. (58)	6 Fri	9994-2705	47-1087	198-3239	458
27 Mar. (86)	1 Sun	3 52 30	17 Mar. (76)	5 Thur.	28-9101	983-0922	249-6337	458
27 Mar. (86)	2 Mon	10 5 0	7 Mar. (66)	3 Tues.	243-2253	866-6186	221-5476	458
27 Mar. (86)	3 Tues.	16 17 30	26 Mar. (85)	2 Mon	277-8650	802-6021	272-8573	458
26 Mar. (86)	4 Wed.	22 30 0	14 Mar. (74)	6 Fri	153-5484	649-8370	242-0335	459
27 Mar. (86	6 Fri	4 42 30	3 Mar. (62)	3 Tues,	29-2318	497-0717	211-2097	459
27 Mar. (86)			22 Mar. (81)	2 Mon .	63-8714	433-0553	262-5194	459
27 Mar. (86)	S Combine	100 20 44	11 Mar. (70)	6 Fri. ,	9939-5548	280-2901	231-6955	459
26 Mar. (86)	-050	The same of	28 Feb. (59)	3 Tues.	19815-2381	127-5249	200-8716	459
27 Mar (86)	Participa de	5 32 30	18 Mar. (77)	2 Mon	9849-8778	63-5684	252-1813	450
27 Mar. (85)	100000	1 45 0	- N	0 Sat	64-1930	247-0318	224-095	450

TABLE

				CONC	URRENT Y	EAR.		
Kali,	Saka.	Chaitradi Vikrama.	Mehidi solar year in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	Intercalated (adhika) and suppressed (kshaya) Lunar Months (true).
U	2	3	3a	4	5	6	7	8
4597 4598 4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609 4610 4611 4612 4613 4614 4615 4616	1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436	1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571	902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920	670-71 671-72 672-73 673-74 674-75 675-76 676-77 677-78 678-79 679-80 680-81 681-82 682-83 683-84 684-85 685-86 686-87 687-88 688-89 689-90	1495-96 *1496-97 1497-98 1498-99 1499-1500 *1500-01 1501-02 1502-03 1503-04 *1504-05 1506-07 1506-07 1507-08 *1508-09 1510-11 1511-12 *1512-13 1513-14 1514-15	49 Rākshasa . 50 Anala 51 Pingala . 52 Kālayukta . 53 Siddhārthin . 54 Raudra . 55 Durmati . 56 Dundubhi . 57 Rudhirōdgārin 58 Raktāksha . 59 Krōdhana . 60 Kshaya . 1 Prabhava . 2 Vibhava . 3 Sukla 4 Pramōda . 5 Prajāpati . 6 Angiras . 7 Srīmukha .	56 Dundubhi . 57 Rudhirödgärin 58 Raktäksha . 59 Krödhana . 60 Kshaya . 1 Prabhava . 2 Vibhava† . 4 Promöda . 5 Projāpati . 6 Asgiras . 7 Śrīmukha . 8 Bhūvu . 9 Yuvan . 10 Dhūtri . 11 Iśvara . 12 Bahudhānya . 13 Pramāthin . 14 Vikrama . 15 Vrisha .	5 Śrāvaņa
4617	1438	1573	922	690-91	1515-16	8 Bhāva 9 Yuvan	16 Chitrobhānu .	
4618	1439	1574	923	691-92	*1516-17	10 Dhātri	18 Tăraņa	5 Śrāvaņa .
4619	1440	1575	924	692-93	1517-18	11 Iśvara . ,	19 Pārthiva .	
4620 4621	1441	1576	925 926	693-94 694-95	1518-19 1519-20	12 Bahudhönya . 13 Pramäthin .	20 Vyaya	3 Jyështha .

[†] No. 3 Sukla was suppressed in the north.

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		.CO3	IMENCEMENT	OF THE				
So	LAR YEAR.		LUNI-SOLAR YE		NRISE OF C		wnich	Kali.
Day and month, A.D.	Week- day.	Time of true Měsha- samkränti.	Day and month, A.D.	Week- day,	a,	6.	c.	
13	14	17	19	20	23	24	25	1
27 Mar. (86) 27 Mar. (87) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (87) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86) 27 Mar. (86)	0 Sat 2 Mon 3 Tues 4 Wed	14 15 0 20 27 30 2 40 0 8 52 30 15 5 0	27 Mar. (86) 16 Mar. (76) 5 Mar. (64) 23 Mar. (82) 12 Mar. (71) 1 Mar. (61) 20 Mar. (79) 9 Mar. (68) 27 Feb. (58) 17 Mar. (77) 6 Mar. (65) 25 Mar. (84) 14 Mar. (73) 2 Mar. (62) 21 Mar. (80) 11 Mar. (70)	6 Fri 4 Wed 1 Sun 6 Fri 3 Tues 1 Sun 0 Sat 4 Wed 2 Mon 1 Sun 4 Wed 1 Sun 4 Wed 1 Sun 5 Thur 4 Wed	98-8327 313-1479 188-8313 9884-8390 9760-5224 9974-8377 9-4773 9885-1607 99-4760 134-1156 9-7990 44-4386 9920-1220 9795-8054 9830-4450 44-7603	883-0184 766-5447 613-7796 513-4715 360-7063 244-2328 180-2162 27-4510 910-9775 846-9609 694-1958 630-1793 477-4141 324-6489 260-6324 144-1589	275-4050 247-3190 216-4950 265-0670 234-2431 206-1571 257-4668 226-6429 198-5568 249-8666 219-0427 270-3525 239-5286 208-7048 260-0144 231-9284	4597 4598 4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609 4610 4611
27 Mar. (86) 27 Mar. (87)	0 Sat	3 30 0	The Committee of the Co	6 Fri 5 Thur	9920-4426 9955-0933	991-3+36 927-3772	201-1045 252-4142	4613 4614
27 Mar. (86) 27 Mar (86)	2 12 2 2 2 2			3 Tues 2 Mon	169-3984 202-0381	810-9036 746-8872	224·3282 275 6379	4615
27 Mar. (86	The second second			6 Fri	3.00	594-1219	244-8140	4617
27 Mar. (87 27 Mar. (86	S Commo	100000000000000000000000000000000000000	The same of the same	3 Tues .	Description of	441-3567 377-3403	213-9901 265-2999	4619
27 Mar. (86	A PROPERTY	PROFITS 6	20120-7-2020	6 Fri.	9865-7278	224-5750	234-4760	4620
27 Mar. (86) 1 Sun.	. 22 57 30	2 Mar. (61)	4 Wed	80-0431	108-1015	206-3800	4621

TABLE

				CONCL	RRENT Y	EAR,		
Kali.	Saka.	Chaitradi Vikrama.	Meshādi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6	7	8
4622 4623 4624 4625 4626 4627 4628 4629 4630 4631 4632 4633 4634 4635 4636 4637 4638 4639 4640	1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461	1578 1579 1580 1581 1582 1583 1584 1585 1586 1586 1589 1590 1591 1592 1593 1594 1595 1596 1597	927 928 929 930 931 932 933 934 935 936 937 938 940 941 942 943 944 945	695-96 696-97 697-98 698-99 699-700 700-01 701-02 702-03 703-04 704-05 705-06 706-07 707-08 708-09 709-10 710-11 711-12 712-13 713-14 714-15	*1529-21 1521-22 1522-23 1523-24 *1523-24 *1525-26 1525-26 1525-27 1527-28 *1528-29 1529-30 1530-31 1531-32 *1532-33 1533-34 1534-35 1536-37 1537-38 1538-39 1539-40	14 Vikrama . 15 Vrisha 16 Chitrabhānu . 17 Subhānu . 18 Tāra-a 19 Pārthiva . 20 Vyaya 21 Sarvajīt . 22 Sarvadhārin . 23 Virōdhin . 24 Vikrita 25 Khara 26 Nandana . 27 Vijaya 29 Manmatha . 30 Durmukha . 31 Hēmalamba . 32 Vilamba . 33 Vikārin	22 Sarvadhārin . 23 Virödhin . 24 Vikrita . 25 Khara . 26 Nandana . 27 Vijaya . 28 Jaya . 29 Manmatha . 30 Durmukha . 31 Hēmalamba . 32 Vilamba . 33 Vikārin . 34 Sārvarin . 35 Plava . 36 Subhakrit . 37 Sōbbana . 38 Krōdhin . 39 Višvāvasu . 40 Parābhava .	2 Vaišākha
4642 4643 4644 4645 4646	1463 1464 1465 1466 1467	1598 1599 1600 1601 1602	947 948 949 950 951	715-16 716-17 717-18 718-19 719-20	*1540-41 1541-42 1542-43 1543-44 *1544-45	34 Sărvarin . 35 Plava . 36 Subhakrit . 37 Söbhana . 38 Krödhin .	42 Kilaka . { 43 Saumya . 44 Sādhāraņa . 45 Virēdhakrit . 46 Paridhāvin .	7 Āsvins† 10 Pausha(ksh.) 1 Chaitra 6 Bhādrapada

[†] A close case. At the Tula-samkranti the moon had been waxing for less than 2 minutes.

LXI-Contd.

So	OLAR YEAR.		LUNI-SOLAR Y	EAR (MEAN CHAITRA	SUNRISE OF CURLA I END	CIVIL DAY O	N WHICH	Kal
Day and month. A.D.	Week- day.	Time of true Mesha- samkranti.	Day and month, A.D.	Week- day.	a.	<i>i</i> .	c,	
13	14	17	19	20	23	. 24	25	1
		н. м. в.					017 4007	462
27 Mar. (87)	3 Tues.	5 10 0	20 Mar. (80)	3 Tues.	114-6827	44-0850	257-6997	20.93
27 Mar. (86)	4 Wod.	11 22 30	9 Mar. (68)	0 Sat	9990-3661	891-3198	226-8758	462
27 Mar. (86)	5 Thur.	17 35 0	27 Feb. (58)	5 Thur.	204-6814	774-8462	198-7897	462
27 Mar. (86)	6 Fri	23 47 30	18 Mar. (77)	4 Wed.	239-3210	710-8297	250-0995	462
27 Mar. (87)	1 Sun	6 0 0	6 Mar. (66)	I Sun	115-0044	558-0646	219-2756	462
27 Mar. (86)	2 Mon	12 12 30	25 Mar. (84)	0 Sat	149-6440	494-0480	270-5854	462
27 Mar. (86)	3 Tues.	18 25 0	14 Mar. (73)	4 Wed.	25-3274	341-2828	239-7615	462
28 Mar. (87)	5 Thur.	0 37 30	3 Mar. (62)	1 Sun	9901-0108	188-5177	208-9577	462
27 Mar. (87)	6 Fri	6 50 0	21 Mar. (81)	0 Sat	9935-6504	124-5011	160-2473	463
27 Mar. (86)	0 Sat	13 2 30	11 Mar. (70)	5 Thur.	149-9657	8-0276	232-1613	463
27 Mar. (86)	1 Sun	19 15 0	28 Feb. (59)	2 Mon	25-6490	855-2624	201:3374	463
28 Mar (87)	3 Tues.	1 27 30	19 Mar. (78)	I Sun	60-2887	791-2459	252-6471	463
27 Mar. (87)	4 Wed.	7 40 0	8 Mar. (68)	6 Fri	274-6009	674-7723	224-5641	463
27 Mar. (86)	5 Thur.	13 52 30	26 Mar. (85)	4 Wed.	9970-6117	574-4642	273-1330	463
27 Mar. (86)	6 Fri.	20 5 0	15 Mar. (74)	1 Sun	9846-2851	421-6991	242-3091	462
28 Mar. (87)	1 Sun	2 17 30	4 Mar. (63)	5 Thur.	9721-9785	268-9338	211-4853	463
27 Mar. (87)	2 Mon	8 30 0	22 Mar. (82)	4 Wed.	9756-6181	204-9174	262-7950	463
27 Mar. (86)	3 Tues.	14 42 30	12 Mar. (71)	2 Mon	9970-9333	88-4438	234-7089	463
27 Mar. (86)	4 Wed.	20 55 0	2 Mar. (61)	0 Sat	185-2486	971-8702	206-6229	46
	6 Fri	3 7 30	21 Mar. (80)	6 Fri	219-8882	907-9537	257-9326	46
28 Mar. (87)	A CONTRACTOR OF THE PARTY OF TH		9 Mar. (69)	3 Tues.	95-5716	755-1885	227-1088	46
27 Mar. (87)	A MILESTON DO	15 32 30	26 Feb. (57)	0 Sat	9971-2550	602-4234	196-2848	46
27 Mar. (86)	Sept.	- NE IN	17 Mar. (76)	6 Fri		538-40€%	247-5946	46
27 Mar. (86)	S 10/22 1/	77 7850 FEB.	17 2 2 3 W 1 2 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	3 Tues.	9881-5780	385-6417	216-7707	45
28 Mar. (87)	4 Wed. 5 Thur.	3 57 30	6 Mar. (65) 24 Mar. (84)	2 Mon.	Same	521-6251	268-0805	46

TABLE

				CONCU	RRENT Y	EAR.		
Kali.	Saka.	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	Northern system.	INTERCALATED (adhika) and SUFFRESSED (kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6	3	8
4647	1468	1603	952	720-21	1545-46	39 Višvāvasu .	47 Pramādin .	
4645	1469	1604	953	721-22	1546-47	40 Parābhava .	48 Ånanda .	4 Ashādha .
4649	1470	1605	954	722-23	1547-48	41 Plavanga .	49 Rākshasa .	**
4650	1471	1606	955	723-24	*1548-49	42 Kilaka	50 Anala	1944
465L	1472	1607	956	724-25	1549-50	43 Saumya .	51 Pingala .	2 Vaiiākha .
4652	1473	1608	957	725-26	1550-51	44 Sådhårana .	52 Kālayukta .	***
4653	1474	1609	958	726-27	1551-52	45 Virodhakrit .	53 Siddhārthin .	6 Bhādrapada
4654	1475	1610	959	727-28	*1552-53	46 Paridhāvin .	54 Raudra .	370
4655	1476	1611	960	728-29	1553-54	47 Pramādin .	55 Durmati .	
4656	1477	1612	961	729-30	1554-55	48 Ānanda .	56 Dundubhi .	4 Āshāḍha .
4657	1478	1613	962	730-31	1555-56	49 Råkshasa	57 Rudhirödgárin 58 Raktáksha	172***
4658	1479	1614	.963	731-32	*1556-57	50 Anala		3 Jyështha .
4659	1480	1615	964	732-33	1557-58 1558-59	51 Pingala . 52 Kālayukta .	59 Krödhana . 60 Kshaya .	o dyenijina .
4660	1481	1616	965	734-35	1559-60	52 Kalayukta . 53 Siddharthin .	1 Prabhava	8 Kārttika 11 Māgha (ksh.)
4661	1482	1617	967	735-36	*1560-61	54 Randra	2 Vibhava	12 Phålguna
4663	1483	1618	968	736 37	1561-62	55 Durmati .	3 Sukia	
4664	1485	1620	969	737-38	1562-63	56 Dundubhi .	4 Pramôda	5 Srāvaņa .
4665	2000	1621	970	738-39	1563-64	57 Rudhirödgärin	5 Prajāputi .	***
4666	200000	1622	971	739-40	*1564-65	58 Raktāksha .	6 Angiras .	
4667		1623	972		1565-66	59 Krödhana .	7 Śrimukha .	4 Āshāḍha .
4668	E COSTO	1624	973	741-42	1566-67	60 Kshaya .	8 Bhāva	
4669	The same	1625	974	742-43	1567-68	I Prabhava .	9 Yuvan	
4670	1153	1026	975	743-44	*1568-69	2 Vibhava .	10 Dhatri	2 Vaišākha .
1671	1492	1627	976	144-45	1569-70	3 Sukla	11 Iśvara	419

LXI-Contd.

8	OLAR YEAR,		LUNI-SOLAR Y	CHAITRA	SUNRISE OF SUKLA 1 E	CIVIL DAY (ON WHICH	Ka
Day and nonth, A.D.	Week- day.	Time of true Mësha- samkranti,	Day and month, A.D.	Week-	a.	b.	c.	
13	14	17	19	20	23	24	25	1
27 Mar. (86)	6 Fri	H. M. S. 16 22 30	13 Mar. (72)	6 Fri	9791-9009	168-8599	237-2566	46
27 Mar. (86)	0 Sat	22 35 0	3 Mar. (62)	4 Wed.	6-2162	52-3864	200-1706	46
28 Mar. (87)	2 Mon	4 47 30	22 Mar. (81)	3 Tues.	40-9559	988-3699	260-4802	46
7 Mar. (87)	3 Tues	11 0 0	11 Mar. (71)	1 Sun.	255-1711	871-8964	232-3942	46
7 Mar. (86)	4 Wed.	17 12 30	28 Feb. (59)	5 Thur,	130-8544	719-1311	201-5703	46
7 Mar. (86)	5 Thur.	23 25 0	19 Mar. (78)	4 Wed.	165-4941	655-1147	252-8800	46
8 Mar. (87)	0 Sat	5 37 30	8 Mar. (67)	1 Sun	41-1774	502-3495	222-0562	46
7 Mar. (87)	1 Sun	11 50 0	26 Mar. (86)	0 Sat	75-8171	438-3329	273-3659	46
7 Mar. (86)	2 Mon	18 2 30	15 Mar. (74)	4 Wed.	9952-5005	285-5678	242-5420	46.
8 Mar. (87)	4 Wed.	0 15 0	4 Mar. (63)	1 Sun	9827-1839	132-8021	211-7182	46
8 Mar (87)	5 Thur.	6 27 30	23 Mar. (82)	0 Sat	9861-8235	68-7856	263-0279	46
7 Mar. (87)	6 Fri	12 40 0	12 Mar. (72)	5 Thur.	76-1387	952-3120	234-9418	46
7 Mar. (86)	0 Sat	18 52 30	2 Mar. (61)	3 Tues.	290-4540	835-8385	206-8558	46
28 Mar. (87)	2 Mon	1 5 0	21 Mar. (80)	2 Mon	325-0936	760-8220	258-1655	46
8 Mar. (87)	3 Tues.	7 17 .30	10 Mar, (69)	6 Fri	200-7771	619-0567	227-3417	46
7 Mar. (87)	4 Wed.	13 30 0	27 Mar. (87)	4 Wed.	9896-7848	518-7487	275-9135	460
7 Mar. (86)	5 Thur.	19 42 30	16 Mar. (75)	1 Sun	9772-4681	365-9835	245-0897	466
8 Mar. (87)	0 Sat	1 55 0	6 Mar. (65)	6 Fri	9986-7834	249-5104	217-0033	46
8 Mar. (87)	1 Sun	8 7 30	25 Mar. (84)	5 Thur.	21-4230	185-4939	268-3134	460
7 Mar. (87)	2 Mon	14 20 0	13 Mar. (73)	2 Mon.	9897-1064	32-7287	237-4895	460
7 Mar. (86)	3 Tues.	20 32 30	3 Mar. (62)	0 Sat	111-4197	916-2552	209-4035	466
S Mar. (87)	5 Thur.	2 45 0	22 Mar. (81)	6 Fri	146-0613	859-2386	260-7131	466
8 Mar. (87)	6 Fri	8 57 30	11 Mar. (70)	3 Tues.	21-7447	699-4785	229-8883	498
7 Mar. (87)	0 Sat	15 10 0	28 Feb. (59)	0 Sat	9897-4281	546-7083	199-0654	467

TABLE

				CONCU	RRENT Y	EAR.		
W-N	6.1	/Herama.	noinr year			Jovian S.	MVATSARA.	INTERCALATRI (adhika) and SUPPRESSED (kshaya) LUNA: MONTRS (true) 8 6 Bhādrapada 4 Āshādha 5 Śrāvaņa 4 Āshādha
Kali	Saka.	Chaitradi Viltrama.	Meshadi ac in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	(kshaya) LUNAI MONTHS (true),
1	2	3	3a	4	.5	6	7	8
4672	1493	1628	977	745-46	1570-71	4 Pramôda	12 Bahudhānya .	e pitti
4673	1494	1629	978	746-47	1571-72	5 Prajāpati .	13 Pramáthin .	6 Bhadrapada
4674	1495	1630	979	747-48	*1572-73	CAN TANA PARTY	Ta You	
4675	1496	1631	980	748-49	1573-74	7 Śrimukha	te was	
4676	1497	1632	981	749-50	1574-75	- Page 1	The reserves a month	4 Ashādha
4677	1498	1633	982	750-51	1575-76	Se 44	16 Chitrabhānu .	3655
4678	1499	1634	983	751-52	*1576-77	14 C 14 C 17 C 17	17 Subhānu .	2000
4679	1500	1635	984	752-53	1577-78	11 70	18 Tarana	3 Jyeshtha
4680	1501	1636	985	753-54	1578-79	1 000 (CONTROL SOL SOL	19 Pärthiva	DECEMBER OF THE PARTY OF THE PA
4681	1502	1637	986	754-55	1579-80	12 Bahudhānya .	20 Vyhyn	8 Kärttika
4682	1503	1638	987	755-56	*1580-81		21 Sarvajit .	317
4683	1504	1639	988	756-57	1581-82	and the second	22 Sarvadhārin .	
4684	1505	1640	989	757-58	1582-83	15 Vrisha	23 Virodhin .	5 Sravaņa
4685	1506	1641	990	758-59	1583-84	16 Chitrabhānu .	24 Vikrita	****
4686	1507	1642	991	759-60	1741017676	17 Subhānu .	25 Khara	
4687	1508	Towns and	onw		*1584-85	18 Tăraņa	26 Nandana .	4 Āshādha
4688	1509	1643	992	760-61	1585-86	19 Parthiva .	27 Vijaya	3992
4689	1510	10700	993	761-62	1586-87	20 Vyaya	28 Jaya	3775
	1511	1645	994	762-63	1587-88	21 Sarvajit .	29 Manmatha† .	2 Vaišākha
4690	283	1646	995	763-64	*1588-89	22 Sarvadhärin .	31 Himalamba .	***
4691	1512	1647	956	764-65	1589-90	23 Virôdhin .	32 Vilamba .	6 Bhādrapada
4692	2513	1648	997	765-66	1590-91	24 Vikrita	33 Vikārin	200
4693	1514	1049	908	766-67	1591-92	25 Khara	34 Sărtorin .	
4494	1515	1650	999	767-68	*1592-93	26 Nandana .	35 Plava	4 Āshādha
4095	1516	1051	1200	708-69	1593-94	27 Vijaya	36 Subhakrit ,	1995
4896	1517	11.52	1001	40-70	1594-95	28 Jaya	37 Śöbhana .	775.00

† No. 30 Darmati was suppressed in the north

LXI-Contd.

		COMM	ENCEMENT C	F THE				
Sai	AR YEAR.		LUNI-SOLAR Y		SUNRISE OF SURLA 1 E		ON WHICH	Kali
Day and month, A.D.	Week- day.	Time of true Měsha- samkränti.	Day and month, A.D.	Week-day.	a.	b.	e.	0
13	14	17	19	20	23	24	25	1
28 Mar. (87)	3 Tues.	H. M. S. 3 35 0	7 Mar. (66)	3 Tues.	9807-7511	339-2366	219-5513	4672
28 Mar. (87)	4 Wed	9 47 30	26 Mar. (85)	2 Mon.	9842-3907	265-9101	270-8611	4673
27 Mar. (87)	5 Thur.	16 0 0	15 Mar. (75)	0 Sat.	56-7060	149-4366	242-7749	4674
27 Mar. (86)	6 Fri.	22 12 30	4 Mar. (63)	4 Wed	9932-3894	996-6713	211-9511	4675
28 Mar. (87)	1 Sun	4 25 0	23 Mar. (82)	3 Tues.	9967-0290	932-6549	263-2608	4676
28 Mar. (87)	2 Mon	10 37 30	13 Mar. (72)	1 Sun.	181-3441	816-1813	235-1747	4677
27 Mar. (87)	3 Tues.	16 50 0	1 Mar. (61)	5 Thur.	57-0275	663-4160	204-3509	4678
27 Mar. (86)	4 Wed.	23 2 30	20 Mar. (79)	4 Wed.	91-6671	599-3996	255-9524	4679
28 Mar. (87)	6 Fri	5 15 0	9 Mar. (68)	1 Sun	9967-3506	446-6344	224-8368	4680
28 Mar. (87)	0 Sat	11 27 30	28 Mar. (87)	0 Sat	1-9902	382-6179	276-1464	4681
27 Mar. (87)	1 Sun	17 40 0	16 Mar. (76)	4 Wed	9877-6735	229-8527	245-3226	4682
27 Mar (86)	2 Mon	23 52 30	6 Mar. (65)	2 Mon	91-9888	113-3791	217-2365	4683
28 Mar. (87)	4 Wed	6 5 0	25 Mar. (84)	1 Sun	126-6284	49-3626	268-5463	4684
28 Mar. (87)	5 Thur	12 17 30	14 Mar. (73)	5 Thur	2-3118	896-5974	237-7224	4685
27 Mar. (87)	6 Fri	18 30 0	3 Mar. (63)	3 Tues	216-6271	780-1239	209-6363	4686
28 Mar. (87)	1 Sun	0 42 30	22 Mar. (81)	2 Mon	251-2667	716-1074	260-9400	4687
28 Mar. (87)	2 Mon	6 55 0	11 Mar. (70)	6 Fri	126-9501	563-3422	230-1222	4688
28 Mar. (87)	3 Tues	13 7 30	28 Feb. (59)	3 Tues	2-6335	410-5770	199-2983	4689
27 Mar. (87)	4 Wed	19 20 0	18 Mar. (78)	2 Mon	37-2731	346-5605	250-6081	4690
28 Mar. (87)	6 Fri	1 32 30	7 Mar. (66)	6 Fri	9912-9565	193-7953	219-7842	4691
28 Mar. (87)	0 Sat	7 45 0	26 Mar. (85)	5 Thur .	9947-5961	129-7788	271-0939	4692
28 Mar. (87)	1 Sun	13 57 30	16 Mar. (75)	3 Tues	161-9114	13-2053	243-0078	4693
27 Mar. (87)	2 Mon	20 10 0	4 Mar. (64)	0 Sat	37-5948	860-5401	217 1840	4694
28 Mar. (87)	4 Wed, .	2 22 30	23 Mar. (82)	6 Fri	72-2344	796-5236	263-4987	4698
28 Mar (87)	5 Thur .	8 35 0	13 Mar. (72)	4 Wed	286-5496	580-0500	233.4076	4696

TABLE

		EAR.	TRRENT Y	CONCL		-10-12		
INTERCALATED (adhika) and SUPPRESSED	MVATSARA.	Jovian Sa	5,430	THE	ar year	krama.		10.00
(kshaya) LUNAI MONTHS (true)	Northern system	Southern system.	A.D.	Kollam.	Meshadi solar in Bengal.	Chaitradi Vikrama.	Saka.	Kali,
8	7	6	5	4	3a	3	2	1
3 Jyështha -	38 Krödhin .	29 Manmatha .	1595-96	770-71	1002	1653	1518	4697
	39 Visedvasu .	30 Durmukha ,	*1596-97	771-72	1003	1654	1519	4698
8 Kärttika	40 Paràbhava .	31 Hēmalamba .	1597-98	772-73	1004	1655	1520	4699
	41 Plavanga .	32 Vilamba .	1598-99	773-74	1005	1656	1521	4700
2017	42 Kilaka	33 Vikārin	1599-1600	774-75	1006	1657	1522	4701
5 Srāvaņa	43 Saumya .	34 Sārvarin .	*1600-01	775-76	1007	1658	1523	4702
200	44 Sādhāraņa .	35 Plava	1601-02	776-77	1008	1659	1524	4703
***	45 Virôdhakrit .	36 Subhakrit .	1602-03	777-78	1009	1660	1525	4704
4 Āshādha	46 Paridhāvin .	37 Sõbbana .	1603-04	778-79	1010	1661	1526	4705
100	47 Pramādin .	38 Krödhin .	*1604-05	779-80	1011	1662	1527	4706
D444 []	48 Ānanda .	39 Viśvāvasu .	1605-06	780-81	1012	1663	1528	4707
1 Chaitra .	49 Rākshasa .	40 Parābhava .	1606-07	781-82	1013	1664	1529	4708
255	50 Anala	41 Plavanga .	1607-08	782-83	1014	1665	1530	4709
6 Bhādrapada	51 Pingala .	42 Kilaka	*1608-09	783-84	1015	1666	1531	4710
9 922	52 Kālayukta .	43 Saumya .	1609-10	784-85	1016	1667	1532	4711
564	53 Siddhārthin .	44 Sādhāraņa .	1610-11	785-86	1017	1668	1533	4712
4 Áshādha .	54 Raudra .	45 Virôdhakrit .	1611-12	786-87	1018	1669	1534	4713
***	55 Durmati .	46 Paridhāvin	*1612-13	787-88	1019	1670	1535	4714
1 m 1 m	56 Dundubhi .	47 Pramādin .	1613-14	788-89	1020	1671	1536	4715
3 Jyeshtha .	57 Rudhirödgårin	48 Ananda .	1614-15	789-90	1021	1672	1537	4716
	58 Raktāksha .	49 Rākshasa .	1615-16	790-91	1022	1673	1538	4717
7 Āśvina .	59 Krödhana .	50 Anala	*1616-27	791-92	1023	1674	1539	4718
***	60 Kshaya .	l Pingala .	1617-18	792-93	1024	1075	1540	4719
***	1 Prabhava .	52 Kälayukto .	1618-19	793-94	1025	1656	1541	4720
5 Srāvaņa .	2 Vibhava .	53 Siddhärthin .	1619-20	794-95	1026	1677	1542	4721

LXI-Contd.

Sc	LAR YEAR.		LUNI-SOLAR Y	EAR (MEAN CHAITBA	SUNBISE OF C	DS).	N WHICH	Kali
Day and month, A.D.	Week- day.	Time of true Měsha- samkränti.	Day and month, A.D.	Week- day.	a.	ь.	c.	
13	14	17	19	20	23	24	25	1
		H. M. S.				#0# 00 to	not rone.	469
28 Mar. (87)	6 Fri	14 47 30	2 Mar. (61)	1 Sun	162-2330	527-2848	204-5838	10000
27 Mar. (87)	0 Sat	21 0 0	19 Mar. (79)	6 Fri	9858-2408	426-9767	253-1557	469
28 Mar. (87)	2 Mon	3 12 30	8 Mar. (67)	3 Tues.	9733-9241	274-2115	222-3318	469
28 Mar. (87)	3 Tues.	9 25 0	27 Mar. (86)	2 Mon	9768-5638	210-1951	273-6415	470
28 Mar. (87)	4 Wed.	15 37 30	17 Mar. (76)	0 Sat	9982-8789	93-7214	245-5555	470
27 Mar. (87)	5 Thur.	21 50 0	6 Mar. (66)	5 Thur.	197-1942	977-2479	218-4694	470
28 Mar. (87)	0 Sat	4 2 30	25 Mar. (84)	4 Wed.	231-8338	913-2313	268-7792	470
28 Mar. (87)	1 Sun	10 15 0	14 Mar. (73)	1 Sun.	107-5172	760-4661	237-9552	470
28 Mar. (87)	2 Mon	16 27 30	3 Mar. (62)	5 Thur.	9983-2006	607-7010	207-1314	470
27 Mar. (87)	3 Tues.	22 40 0	21 Mar. (81)	4 Wed.	17-8402	543-6844	258-4411	470
28 Mar. (87)	5 Thur.	4 52 30	10 Mar. (69)	1 Sun	9893-5236	390-9192	227-6173	470
28 Mar. (87)	6 Fri	11 5 0	27 Feb. (58)	5 Thur.	9769-2070	238-1541	196-7934	470
28 Mar. (87)	0 Sat	17 17 30	18 Mar. (77)	4 Wed.	9803-8466	174-1376	248-1032	470
27 Mar. (87)	1 Sun	23 30 0	7 Mar. (67)	2 Mon	18-1619	57-8640	220-0171	471
28 Mar. (87)	3 Tues.	5 42 30	26 Mar. (85)	1 Sun	52-8015	993-6475	271-3267	471
28 Mar. (87)	4 Wed.	11 55 0	16 Mar. (75)	6 Fri	267-1178	877-1740	243-2407	471
28 Mar. (87)	5 Thur.	18. 7 30	5 Mar. (64)	3 Tues.	142-8002	724-4087	212-4169	471
28 Mar. (88)	0 Sat	0 20 0	23 Mar. (83)	2 Mon	177-4398	660-3923	263-7266	471
28 Mar. (87)	1 Sun	6 32 30	12 Mar. (71)	6 Fii	53-1233	507-6271	232-9028	471
28 Mar. (87)	2 Mon	12 45 0	1 Mar. (60)	3 Tues.	9928-8064	354-8619	202-0789	471
28 Mar. (87)	3 Tues.	18 57 30	20 Mar. (79)	2 Mon	9962-4462	290-8454	253-3885	471
28 Mar. (88)	Day Oliver	1 10 0	8 Mar. (68)	6 Fri	9839-1305	138-0802	222-5617	471
28 Mar. (87)	6 Fri	7 22 30	27 Mar. (86)	5 Thur.	9874-7691	74-0637	273-8744	471
	0 Sat	13 35 0	17 Mar. (76)	3 Tues.	88-0843	957-5901	245-7884	472
28 Mar. (87) 28 Mar. (87)		19 47 30	7 Mar. (66)	1 Sun	302-3996	841-1165	217-7023	475

				CONCU	RRENT Y	EAR.		
Kali.	Saka.	Chaitrādi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system,	INTERCALATED (adhika) and SUPPRESSED (kahaya) LUNAR MONTHS (true).	
1	2	3	3a	4	5	6	7	8
4722 4723 4724 4725 4726 4727 4728 4729 4730 4731 4732 4733 4734 4735 4736 4736 4737 4738 4739 4740 4741 4742	1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564	1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1690 1601 1692 1693 1694 1695 1696 1697 1698	1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1040 1041 1042 1043 1044 1045 1046 1047	795-96 796-97 797-98 798-99 799-800 800-01 801-02 802-03 803-04 804-05 805-06 806-07 807-08 808-09 809-10 810-11 811-12 812-13 813-14 814-15 815-16 816-17	*1620-21 1621-22 1622-23 1623-24 *1624-25 1625-26 1625-26 1626-27 1627-28 *1628-29 1629-30 1630-31 1631-32 *1632-33 1633-34 1634-35 1635-36 *1636-37 1637-38 1638-39 1639-40 *1640-41 1641-42	54 Raudra . 55 Durmati . 56 Durmati . 57 Rudhirodgarin 58 Raktāksha . 59 Krodhana . 60 Kshaya . 1 Prabhava . 2 Vibhava . 3 Sukla . 4 Pramoda . 5 Prajāpati . 6 Angiras . 7 Srīmukha . 8 Bhāva . 9 Yuvan . 10 Dhātri . 11 Iśvara . 12 Bahudhānya . 13 Pramāthin . 14 Vikrama .	3 Sukla	4 Ashādha
4741	1565	1700	1049	817-18	1642-43	16 Chitrabhānu . 17 Subhānu .	25 Khara	***
4746	1567	1702	1051	819-20	*1644-45	18 Tāraņa	27 Vijaya	1 Chaitra .

LXI-Contd.

		CON	IMENCEMENT	OF THE	15 1			
S	OLAR YEAR,		LUNI-SOLAR		SUNRISE OF		on which	Kali
Fay and month, A.D.	Week-day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	a.	δ.	£.	
13	14	17	19	20	23	24	25	1
28 Mar. (88)	3 Tues.	H. M. S. 2 0 0	24 Mar. (84)	6 Fri	9998-4073	740-8085	266-2743	4722
28 Mar. (87)	4 Wed.	8 12 30	14 Mar. (73)	4 Wed.	212-7226	624-3349	238-1881	4723
28 Mar. (87)	5 Thur.	14 25 0	3 Mar. (62)	1 Sun.	88-4060	471-5697	207:3643	4724
28 Mar. (87)	6 Fri	20 37 30	21 Mar. (80)	6 Fri	9784-4137	371-2616	255-9362	4725
28 Mar. (88)	1 Sun	2 50 0	10 Mar. (70)	4 Wed.	9998-7290	254-7880	227-8502	4724
28 Mar. (87)	2 Mon	9 2 30	27 Feb. (58)	1 Sun	9874-4124	102-0228	197-0263	4727
28 Mar. (87)	3 Tues.	15 15 0	18 Mar. (77)	0 Sat	9909-0520	38-0063	248-3361	4728
28 Mar. (87)	4 Wed.	21 27 30	8 Mar. (67)	5 Thur.	123-3673	921-5328	220-2500	4729
28 Mar. (88)	6 Fri	3 40 0	26 Mar. (86)	4 Wed.	158-0079	857-5162	271-4596	4730
28 Mar. (87)	0 Sat	9 52 30	15 Mar. (74)	1 Sun	33-6902	704-7511	240:7358	4731
28 Mar. (87)	1 Sun	16 5 0	4 Mar. (63)	5 Thur.	9909-3737	551-9859	209-9120	4732
28 Mar. (87)	2 Mon.	22 17 30	23 Mar. (82)	4 Wed.	9944-0133	487-9693	261-2217	4733
28 Mar. (88)	4 Wed.	4 30 0	11 Mar. (71)	1 Sun	9819-6967	335-2042	230-3979	4734
28 Mar. (87)	5 Thur.	10 42 30	1 Mar. (60)	6 Fri	34-0119	218-7306	202-3118	4735
28 Mar. (87)	6 Fri	16 55 0	20 Mar. (79)	5 Thur.	68-6516	154-7141	253-1575	4736
28 Mar. (87)	0 Sat	23 7 30	9 Mar. (68)	2 Mon	9944-3349	1-9489	222-7976	4737
28 Mar. (88)	2 Mon	5 20 0	27 Mar. (87)	1 Sun. ,	9978-9746	937-9325	274-1073	4738
28 Mar. (87)	3 Tues.	11 32 30	17 Mar. (76)	6 Fri	193-2898	821-4589	246-0213	4739
28 Mar. (87)	4 Wed.	17 45 0	6 Mar. (65)	3 Tues.	68-9732	668-6936	215-1974	4740
28 Mar. (87)	5 Thur.	23 57 30	25 Mar. (84)	2 Mon	103-6128	604-6772	266-5072	4741
28 Mar. (88)	0 Sat	6 10 0	13 Mar. (73)	6 Fri	9979-2962	451-9120	235-6833	4742
28 Mar. (87)	1 Sun	13 22 30	2 Mar. (61)	3 Tues.	9854-9796	299-1468	204-8594	4743
28 Mar. (87)	2 Mon	18 35 0	21 Mar. (80)	2 Mon	9890-6192	235-1303	256-1691	4744
20 Mar. (88)	4 Wed.	0 47 30	10 Mar (69)	6 Fri	9785-3026	82-3651	225-3453	4745
28 Mar. (88)	5 Thur.	7 0 0	28 Feb. (59)	4 Wed.	9979-6178	965-8916	197-2592	4746

TABLE

				CONCU	RRENT Y	EAR,		
Kali.	Saka.	Chaitradi Vikrama.	Meshidi solar year in Bengal.	Kollam.	A.D.	JOVIAN SA Southern system.	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTHS (true).
3	2	3	3a	4	5	6	7	8
4747 4748 4749	1568 1569 1570	1703 1704 1705	1052 1053	820-21 821-22 822-23	1645-46 1646-47 1647-48	19 Pārthiva . 20 Vyaya 21 Sarvajit .	28 Jaya	5 Śrāvaņa .
4750	1571	1706	1055	823-24	*1648-49	22 Sarvadhārin .	30 Durmukha . 31 Hémalamba .	***
4751 4752	1572	1707	1056 1057	824-25 825-26	1649-50 1650-51	23 Virôdhin . 24 Vikrita	32 Vilamba . 33 Vikārin .	4 Āshādha .
4753	1574	1709	1058	826-27	1651-52	25 Khara	34 Sārvarin	
4754 4755	1575	1710	1059	827-28 828-29	*1652-53 1653-54	26 Nandana . 27 Vijaya	35 Plava	2 Vaišākha ,
4756	1577	1712	1061	829-30	1654-55	28 Jaya	37 Söbhana ,	6 Bhādrapada
4757	1578	1713	1062	830-31 831-32	1655-56 *1656-57	29 Manmatha , 30 Durmukha .	38 Krödhin . 39 Višvāvasu .	***
4759	1580	1715	1064	832-33	1657-58	31 Hêmalamba .	40 Parābhava .	5 Śrávaņa .
4760 4761	1581	1716	1065 1066	833-34 834-35	1658-59 1659-60	32 Vilamba	41 Plavanga . 42 Kilaka	***
4762	1883	1718	1067	835-36	*1660-61	34 Śārvarin .	43 Saumya	3 Jyështha .
4763	1584 1585	1719 1720	1068	836-37 837-38	1661-62 1662-63	35 Plava	44 Sådhårana . 45 Virôdhakrit .	***
4765	1586	1721	1070	838-39	1663-64	37 Ščbhana .	46 Paridāvin .	1 Chaitra .
4766 4767	1587 1588	1722 1723	1071	839-40 840-41	*1664-65 1665-66	38 Krôdhin . 39 Viśvāvasu .	47 Pramādin . 48 Ānanda .	5 Śrávana .
4768	1589	1721	1073	841-42	1666-67	40 Parābhava ,	49 Rākshasa	
4760 4770	1590	1725 1726	1074	842-43	1667-68 *1668-69	41 Plavanga . 42 Kilaka	50 Anala 51 Pingala	4 Āshādha .
4771	1592	1727	1076	844-45	1669-70	43 Saumya .	52 Kālayukta .	+ Ashadha .

LXI-Contd.

		co	MMENCEMEN	T OF THE		M		
8	OLAR YEAR		LUNI-SOLAR		N SUNRISE SUKLA 1 E		N WHICH	Kali.
Day and month, A.D.	Week-day.	Time of true Mesha- samkränti,	Day and month, A.D.	Week-day,	a.	ь.		
13	14	17	19	20	23	24	25	1
10		H. M. S.						
28 Mar. (87)	6 Fri	13 12 30	18 Mar. (77)	3 Tues,	14-2674	901-8750	248-4690	4747
28 Mar. (87)	0 Sat	19 25 0	8 Mar. (67)	1 Sun	229-5727	785-4015	220-4829	4748
29 Mar. (88)	2 Mon	1 37 30	27 Mar. (86)	0 Sat	263-2124	720-3850	271-7925	4749
28 Mar. (88)	3 Tues.	7 50 0	15 Mar. (75)	4 Wed,	138-8957	568-6198	240-9687	4750
28 Mar. (87)	4 Wed.	14 2 30	4 Mar. (63)	1 Sun	14-5791	415-8546	210-1449	4751
28 Mar. (87)	5 Thur.	20 15 0	23 Mar. (82)	0 Sat	49-2187	351-8381	261-4546	4752
29 Mar. (88)	0 Sat	2 27 30	12 Mar. (71)	4 Wed.	9924-9021	199-0730	230-6308	4753
28 Mar. (88)	1 Sun	8 40 0	29 Feb. (60)	1 Sun	9800-5855	46-3077	199-8269	4754
28 Mar. (87)	2 Mon	14 52 30	20 Mar. (79)	1 Sun	173-8570	18-5828	254-8044	4755
28 Mar. (87)	3 Tues.	21 5 0	9 Mar. (68)	5 Thur.	49-5403	865-8177	223-0305	4756
29 Mar. (88)	5 Thur.	3 17 30	28 Mar. (87)	4 Wed.	84-1800	801-8012	274-3402	4757
28 Mar. (88)	6 Fri	9 30 0	17 Mar. (77)	2 Mon	298-4953	685-3276	246-2542	4758
28 Mar. (87)	0 Sat	15 42 30	6 Mar. (65)	6 Fri	174-7786	532-5624	215-4303	4759
28 Mar. (87)	1 San	21 55 0	24 Mar. (83)	4 Wed	9870-7864	432-2544	264-0023	4760
29 Mar. (88)	3 Tues.	4 7 30	13 Mar. (72)	1 Sun	9746-4697	279-4893	233-1784	4761
28 Mar. (88)	4 Wed.	10 20 0	2 Mar. (62)	6 Fri	9960-7850	163-0155	205-0743	4762
28 Mar. (87)	5 Thur.	16 32 30	21 Mar. (80)	5 Thur.	9995-4246	98-9991	256-1020	4763
28 Mar. (87)	6 Fri	22 45 0	10 Mar. (69)	2 Mon	9871-1080	946-2338	225-5782	4784
29 Mar. (88)	1 Sun	4 57 30	28 Feb. (59)	o Sat .	84-8233	829-7603	197-4921	4765
28 Mar. (88)	2 Mon	11 10 0	18 Mar. (78)	6 Fri .	119-4629	765-8038	248-8019	4766
28 Mar. (87)	3 Tues.	17 22 30	7 Mar. (66)	3 Tues.	9996-1463	612-9787	217-9780	4767
28 Mar. (87)	4 Wed.	23 35 0	26 Mar. (85)	2 Mon	29-7859	548-9621	259-2877	4768
29 Mar. (88)	0 Fri	5 47 30	15 Mar. (74)	6 Fri	9905-4693	396-1963	238-4628	4769
28 Mar. (88)	0 Sat	12 0 0	3 Mar. (63)	3 Tues.	9781-1527	243-4318	207-6400	4770
28 Mar. (87)	1 Sun	18 12 30	22 Mar. (81)	2 Mon	9815-7923	179-4152	258-9497	4771
-0 Jim. (01)	a Sunt a	10 12 00	49 May (01)	- months			TERRITOR	

_	-	_	-				-	
				CONCUP	RENT YE	AR.		
	ik.	rama.	r year			JOVIAN SAN	(VATSARA.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAB
Kali.	Saks.	Chaitrādi Vikrama.	Möshildi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	MONTHS (true).
1	2	3	3a	4	5	6	7	8
			- ALLE	0.15 40	1670-71	44 Sådhärana	53 Siddhärthin .	***
4772	1593	1728	1077	845-46	(continue)	PERSON SILVER	54 Raudra	2 Vaišākha .
4773	1594	1729	1078	846-47	1671-72	45 Virödhakrit . 46 Paridhāvin .	55 Durmatit .	The state of the s
4774	1595	1730	1079	847-48	*1672-73		57 Rudhirôdgārin	6 Bhādrapada
4775	1596	1731	1080	848-49	1673-74	47 Pramādin	Manager Company of the Company of th	
4776	1597	1732	1081	849-50	1674-75	48 Ānanda	Mesternation	11157
4777	1598	1733	1082	850-51	1675-76	49 Rākshasa	59 Krödhana .	5 Śrāvaņa .
4778	1599	1734	1083	851-52	*1676-77	50 Anala .	60 Kshaya	o Stavana
4779	1600	1735	1084	852-53	1677-78	51 Pingala .	1 Prabhava .	
4780	1601	1736	1085	853-54	1678-79	52 Kālayukta .	2 Vibhava .	
4781	1602	1737	1086	854-55	1679-80	53 Siddhārthin .	3 Śukla	3 Jyeshtha .
4782	1603	1738	1087	855-56	*1680-81	54 Raudra .	4 Pramoda .	7 Āśvina
4783	1604	1739	1088	856-57	1681-82	55 Durmati .	5 Prajapati	10 Pausha (ksh.)
4784	1605	1740	1089	857-58	1682-83	56 Dundubhi .	6 Angiras .	1 Chaitra
4785	1606	1741	1090	858-59	1683-84	57 Rudhirödgårin	7 Śrimukha .	
4780	1607	1742	1001	859-60	*1684-85	58 Raktāksha .	8 Bhāva	5 Srāvaņa
4787	1608	1743	1092	860-61	1685-86	59 Krödhana .	9 Yuran	- 111
4788	1609	1744	1093	861-62	1686-87	60 Kshnya .	10 Dhātri	
4789	1610	1745	1094	862-63	1687-88	1 Prabhava .	11 Isvara	4 Āshādha
4790	1611	1746	1095	863-64	*1688-89	2 Vibhava	12 Bahudhānya .	***
479		1747	-	864-65	1689-90	3 Sukla .	13 Pramāthin .	
4790		1748		865-66	1690-91	4 Pramoda .	14 Vikrama .	2 Vaišākba
479		2001	1	866-67	1 391-92	5 Prajāpati .	15 Vrisha	***
479	10000	1000	1 mg		*1692-93	6 Angiras .	16 Chitrabhānu .	6 Bhādrapada
479		The same	· was		1693-94	7 Śrimukha .	17 Subhānu .	
479		N PONETA	A	101	1694-95	8 Bhāva .	18 Tárana	

† No. 56 Dandabhi was suppressed in the north.

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Sot	AR YEAR.		LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SURLA 1 ENDS).						
Day and nonth, A.D.	Week-day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week- day.	a.	ь.	c.		
13	14	17	19	20	23	24	25	1	
29 Mar. (88)	3 Tues.	H. M. S. 0 25 0	12 Mar. (71)	0 Sat	30-1076	62-9417	230-8637	4772	
29 Mar. (88)	4 Wed.	6 37 30	1 Mar. (60)	4 Wed.	9905-7910	910-1765	200-0398	4773	
28 Mar. (88)	5 Thur.	12 50 0	20 Mar. (80)	4 Wed.	279-0625	882-4516	254-0873	4774	
28 Mar. (87)	6 Fri	19 2 30	9 Mar. (68)	1 Sun	154-7458	729-6864	223-2634	4775	
29 Mar. (88)	1 Sun	1 15 0	28 Mar. (87)	0 Sat	189-3855	665-6700	274-5731	477	
29 Mar. (88)	2 Mon	7 27 30	17 Mar. (76)	4 Wed.	65-0688	512-9048	253-7493	477	
28 Mar. (88)	3 Tues.	13 40 0	5 Mar. (65)	1 Sun	9940-7522	360-1395	212-9255	477	
28 Mar. (87)	4 Wed.	19 52 30	24 Mar. (83)	0 Sat	9975-3918	296-1231	264-2352	478	
29 Mar. (88)	6 Fri	2 5 0	13 Mar. (72)	4 Wed.	9851-0752	143-3579	233-4113	478	
29 Mar. (88)	0 Sat	8 17 30	3 Mar. (62)	2 Mon	65-3904	26-8842	205-3252 256-6349	478	
28 Mar. (88)	1 Sun	14 30 0	21 Mar. (81)	1 Sun	100-0300	962-8678	225-8111	478	
28 Mar. (87)	2 Mon	20 42 30	10 Mar. (69)	5 Thur.	9975-7134	810-1026	197-7250	478	
29 Mar. (88)	4 Wed.	2 55 0	28 Feb. (59)	3 Tues.	190-0287	693-6290	249-0348	47	
29 Mar. (88)	5 Thur.	9 7 30	19 Mar. (78)	2 Mon.	2000000	629-6125 476-8474	218-2108	1000	
28 Mar. (88)	6 Fri	15 20 0	7 Mar. (67)	6 Fri	A CONTRACTOR OF THE PARTY OF TH	- CONTRACTOR	266-7828	1.3	
28 Mar. (87)	0 Sat	W 7- 10	100000000000	4 Wed.	9796-3594	376-5391 260-0656	238-6967		
29 Mar. (88)	2 Mon	No. of Street, Street,	and the second second	2 Mon	1	107-3005	207-8729		
29 Mar. (88)	3 Tues.	9 57 30	ne (om	6 Fri	100	43-2840	259-1826		
28 Mar. (88)		16 10 0	Section (1) (4.2%)	5 Thur.	135-3130	926-8104	231-0966	1000	
28 Mar. (87)		22 22 30		3 Tues.		774-0452	200-2727		
29 Mar. (88			200	0 Sat.	1000000	CONTRACT	251-5824		
29 Mar. (88	A A PART OF THE PART OF	3 3	CONTROL TOTAL	6 Fri.	9921-3194	100000000000000000000000000000000000000	220-758	1	
28 Mar. (88		THE STREET, ST	100 may 1 may 1	3 Tues.	THE STATE OF THE STATE OF	LUCE VERNING	272-0685	-	
28 Mar. (87) 3 Tues.	5 25 0	27 Mar. (86) 16 Mar. (75)	2 Mon. 6 Fri	57, 141, 161, 161, 161, 161, 161, 161, 161	-	1000 (MS/V)	100	

TABLE

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				CONC	URRENT	YEAR.		
Kali,	Saka	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam	. A.D.	JOVIAN S Southern system.	Northern system.	INTERCALATED (adhika) and SUPPERSSED (kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5 .	6	7	8
			-					•
4797	1618	1753	1102	870-71	1695-96	9 Yuvan	19 Părthiya	4 Āshādha .
4798	1619	1754	1103	871-72	*1696-97	10 Dhātri .	20 Vyaya	1
4799	1620	1755	1104	872-73	1697-98	11 Iśvara .	21 Sarvajit .	THE STATE OF
4800	1621	1756	1105	873-74	1698-99	12 Bahudhānya .	22 Sarvadhārin .	3 Jyčshtha
4801	1622	1757	1106	874-75	1699-1700	13 Pramāthin .	23 Virôdhin .	1
4802	1623	1758	1107	875-76	*1700-01	14 Vikrama .	24 Vikrita . {	7 Āśvina 11 Magha (ksh.) }
4803	1624	1759	1108	876-77	1701-02	15 Vrisha .	25 Khara	1 Chaitra
4804	1625	1760	1109	877-78	1702-03	16 Chitrabhānu	26 Nandana .	
4805	1626	1761	1110	878-70	1703-04	17 Sobhānu .	27 Vijaya	5 Śrāvaņa .
4806	1627	1762	1111	879-80	*1704-05	18 Tāraņa .	28 Jaya	7
4807	1628	1763	1112	880-81	1705-06	19 Pārthiya .	29 Manmatha .	
4808	1629	1764	1113	881-82	1706-07	20 Vyaya .	30 Durmukha .	4 Ashādha .
4800	1630	1765	1114	882-83	1707-08	21 Sarvajit ,	31 Hēmalamba .	
4810	1631	1766	1115	883-84	*1708-09	22 Sarvadhārin .	32 Vilamba ,	1 T
4811	1632	1767	1116	884-85	1709-10	23 Virodhin .	33 Vikārin ,	2 Vaišākha .
4812	1633	1768	1117	885-86	1710-11	24 Vikrita .	34 Sārvarin .	
4813	1634	1769	1118	886-87	1711-12	25 Khara .	35 Plava	6 Bhādrapada
1814	1635	1770	1119	887-88	*1712-13	26 Nandana .	36 Subhakrit .	144
4815	1636	1771	1120	888-89	1713-14	27 Vijaya .	37 Söbbana .	
4816	1635	1772	1121	889-90	1714-15	28 Jaya . ,	38 Krödhin .	4 Āshādha .
4817	1638	1773	1122	890-91	1715-16	29 Manmatha .	39 Višvāvasu .	
4818	1639	1774	1123	891-92	*1716-17	30 Durmukha .	40 Parábhava .	
4819	1640	1775	1124	892-93	1717-18	31 Hēmalamba .	41 Plavanga .	3 Jyčahtha .
4820	1641	1776	1125	893-94	1718-19	32 Vilamba .	42 Kilaka	
4821	1642	1777	1126	894-95	1719-20	33 Vikārin .	43 Saumya, .	7 Asvina .
	-	-	-	-		-		

LXI-Contd.

	Tim	COM	MENCEMENT	OF THE				
S	OLAR YEAR,		LUNY-SOLAR Y		SUNRISE OF SURLA 1 E		on which	Kal
Day and month, A.D.	Week- day.	Time of true Mësha- samkranti.	Day and month, A.D.	Week-day.	a.	ь.	e,	
13.	14	17	19	20	23 .	24	25	1
29 Mar. (88)	6 Fri	H. M. 8, 11 37 30	6 Mar. (65)	4 Wed.	45-9577	224-0083	213-1584	479
28 Mar. (88)	0 Sat	17 50 0	23 Mar. (83)	2 Mon	9741-9654	123-7001	261-7303	479
29 Mar. (88)	2 Mon	0 2 30	13 Mar. (72)	0 Sat	9956-2806	7-2266	233-6441	479
29 Mar. (88)	3 Tues.	6 15 0	3 Mar. (62)	5 Thur.	170-5959	890-7531	205-5581	480
29 Mar. (88)	4 Wed.	12 27 30	22 Mar. (81)	4 Wed,	205-2355	826-7366	256-8678	480
28 Mar. (88)	5 Thur.	18 40 0	10 Mar. (70)	1 Sun	80-9189	673-9714	226-0440	480
29 Mar. (88)	0 Sat	0 52 30	27 Feb. (58)	5 Thur.	9956:6022	521-2062	195-2191	480
29 Mar. (88)	1 Sun	7 5 0	18 Mar. (77)	4 Wed.	9991-2419	357-1897	246-5298	486
29 Mar. (88)	2 Mon	13 17 30	7 Mar. (66)	1 Sun	9866-9253	304-4245	215-7059	48
28 Mar. (88)	3 Tues.	19 30 0	25 Mar. (85)	0 Sat	9901-5649	240-4080	267-0157	48
29 Mar. (88)	5 Thur.	1 42 30	14 Mar. (73)	4 Wed.	9777-2483	87-6428	236-1918	48
29 Mar. (88)	6 Fri	7 55 0	4 Mar. (63)	2 Mon	9991-5636	971-1693	208-1058	48
29 Mar. (88)	0 Sat	14 7 30	23 Mar, (82)	1 Sun	26-2032	907-1528	259-4155	48
28 Mar. (88)	1 Sun	20 20 0	12 Mar. (72)	6 Fri	240-5185	790-6792	231-2295	48
29 Mar. (88)	3 Tues.	2 32 30	1 Mar. (60)	3 Tues.	116-2018	637-9140	200-5055	48
29 Mar. (88)	4 Wed.	8 45 0	20 Mar. (79)	2 Mon	150-8415	573-8975	251-8153	48
29 Mar. (88)	5 Thur.	14 57 30	9 Mar. (68)	6 Fri	26-5249	421-1323	220-9914	48
28 Mar. (88)	6 Fri	21 10 0	27 Mar. (87)	5 Thur.	61-1645	357-1158	272-3011	48.
29 Mar. (88)	1 Sun	3 22 30	16 Mar. (75)	2 Mon.,	9936-8478	204-3506	241-4773	48
29 Mar. (88)	2 Mon	9 35 0	5 Mar. (64)	6 Fri	9812-5312	51-5855	210-6535	48
29 Mar. (88)	3 Tues.	15 47 30	24 Mar. (83)	5 Thur.	9847-1709	987-5689	261-9631	48
28 Mar. (88)	4 Wed.	22 0 0	13 Mar. (73)	3 Tues.	61-4864	871-0954	233-8770	48
29 Mar. (88)	6 Fri	4 12 30	3 Mar. (62)	1 Sun	275-8013	754-6218	205-7910	48
29 Mar. (88)	0 Sat	10 5 0	22 Mar. (81)	0 Sat.	310-4410	691-6053	257-1007	483
29 Mar. (88)	1 Sun	16 37 30	11 Mar. (70)	4 Wed.	186-1243	537-8401	226-2769	483

TABLE

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				CONC	URRENT	YEAR.	-19 24-	
Kali	. Saka	Chaitradi Vilcama.	Meshadi solar year in Bengal.	Kollam	A.D.	Jovian S Southern system.	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6		
-	-	-	5014	-		0.	7	8
482	2 1643	1778	1127	895-96	*1720-21	34 Šārvarin ,	44 Sādhāraņa .	***
4823	1644	1779	1128	896-97	1721-22	35 Plava	45 Virödhakrit .	***
4824	1645	1780	1129	897-98	1722-23	36 Subhakrit .		5 Srāvaņa .
4822	1646	1781	1130	898-99	1723-24	37 Sõbhana .	47 Pramādin .	
4826	1647	1782	1131	899-900	*1724-25	38 Krödhin .	48 Ānanda	***
4827	1648	1783	1132	900-01	1725-26	39 Višvāvasu .	49 Rākshasa .	4 Āshādha .
4828	1649	1784	1133	901-02	1726-27	40 Parābhava .	50 Anala	
4829	1650	1785	1134	902-03	1727-28	41 Plavanga .	51 Pingala	
4830	1651	1786	1135	903-04	*1728-29	42 Kilaka .	52 Kālayukta .	2 Vaišākha
4831	1652	1787	1136	904-05	1729-30	43 Saumya .	53 Siddharthin .	244
4832	1653	1788	1137	905-06	1730-31	44 Sādhāraņa .	54 Raudra .	6 Bhādrapada
4833	1654	1789	1138	906-07	1731-32	45 Virôdhakrit .	55 Durmati .	***
4834	1655	1790	1139	907-08	*1732-33	46 Paridhāvin .	56 Dundubhi .	
4835	1656	1791	1140	908-09	1733-34	47 Pramādin .	57 Rudhirödgárin	4 Āshādha .
4836	1657	1792	1141	909-10	1734-35	48 Ānanda .	58 Raktāksha .	O
4837	1658	1793	1142	910-11	1735-36	49 Rākahasa .	59 Krôdhana .	!
4838	1659	1794	1143	911-12	*1736-37	50 Anala .	60 Kshaya	3 Jyeshtha
4839	1660	1795	1144	912-13	1737-38	51 Pingala .	1 Prabhava	***
4840	1661	1796	1145	913-14	1738-39	52 Kālayukta .	2 Vibhava .	7 Aśvina
4841	1662	1797	1146	914-15	1739-40	53 Siddhārthin .	3 Šukla	
4842	1663	1798	1147	915-16	*1740-41	54 Raudra .	4 Pramoda .	
4843	1664	1799	1148	916-17	1741-42	55 Durmati .	5 Prajāpati .	Srāvaņa .
4844,	1665	1800	1149	917-18	1742-43	56 Dundubhi .	6 Angiras	
1815	1666	1801	1150	018-19	1743-44	57 Rudhirödgärin	7 Srimukha .	
4546	1667	1892	1151	019-20	*1744-45	58 Raktāksha .	8 Bhava . 4	Ashādha .
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LXI-Contd.

		C	COMMENCEME	NT OF TH	Œ			
8	SOLAR YEAR		LUNI-SOLAR	YEAR (MEA CHAITRA É	N SUNEISE O UKLA I END	OF DAY ON V	ушен	Kali.
Day and month, A.I.	Week-day.	Time of true Měsha- samkránti.	Day and month, A.D.	Week-day.	a.	b.	c.	
13	14	17	19	20	23	24	25	1
	1	H. M. S.						-
28 Mar. (88) 2 Mon	22 50 0	28 Mar. (88)	2 Mon.	9882-1321	437-5321	274-8488	4822
29 Mar. (88) 4 Wed	5 2 30	17 Mar. (76)	6 Fri	9757-8155	284-7669	244-0249	4823
29 Mar. (88) 5 Thur.	11 15 0	7 Mar. (66)	4 Wed.	9972-1307	168-2932	215-9388	4824
29 Mar. (88) 6 Fri	17 27 30	26 Mar. (85)	3 Tues.	6-7703	104-2768	267-2486	4825
28 Mar. (88) 0 Sat	23 40 0	14 Mar. (74)	0 Sat.	9882-4537	951-5116	236-4247	4826
29 Mar. (88	2 Mon	5 52 30	4 Mar. (63)	5 Thur.	96-7690	835-0380	208-3387	4827
29 Mar. (88	3 Tues	12 5 0	23 Mar, (82)	4 Wed.	131 4086	771-0215	259-6484	4828
29 Mar. (88)	4 Wed	18 17 30	12 Mar. (71)	1 Sun	7-0920	618-2563	228-8246	4829
29 Mar. (89)	6 Fri	0 30 0	29 Feb. (60)	5 Thur.	9882-7754	465-4911	198-0006	4830
29 Mar. (88)	0 Sat.	6 42 30	19 Mar. (78)	4 Wed	9917-4150	401-4746	248-3104	4831
29 Mar. (88)	I Sun	12 25 0	8 Mar. (67)	I Sun	9793-0984	248 7095	218 4865	4832
29 Mar. (88)	2 Mon	19 7 30	27 Mar. (86)	0 Sat	9827-7380	184-6929	208-7963	4833
29 Mar. (89)	4 Wed	1 20 0	16 Mar. (76)	5 Thur.	42-0533	68-2194	241-7102	4834
29 Mar. (88)	5 Thur.	7 32 30	5 Mar. (64)	2 Mon. ,	9917-7367	915-4542	210/8864	4835
29 Mar. (88)	6 Fri	13 45 0	24 Mar. (83)	I Sun	9952-3763	851-4377	260-1960	4836
9 Mar. (88)	0 Sat. ,	19 57 30	14 Mar. (73)	6 Fri	166-6915	734-9641	234-1099	4837
9 Mar. (89)	2 Mon	2 10 0	2 Mar. (62)	3 Tues, .	42:3749	582-1989	203:2861	4838
9 Mar. (88)	3 Tues	8 22 30	21 Mar. (80)	2 Mon	77:0146	518:1725	254-5958	4839
9 Mar. (88)	4 Wed	14 35 0	10 Mar. (69)	6 Fri	9952-6979	365-4172	223 7720	4840
9 Mar. (88)	5 Thur.	20 47 30	29 Mar. (88)	5 Thur.	9987-3376	301-4008	275 1017	4841
9 Mar. (89)	0 Sat	3 0 0	17 Mar. (77)	2 Mon	9863-0209	148-6356	244-2579	4842
9 Mar. (88)	1 Sun	9 12 30	7 Mar. (66)	0 Sat	77-3362	31-1320	216-17, 7	4843
9 Mar. (88)	2 Mon	15 25 0	26 Mar. (85)	6 Fri	111-9758	968-1455	267-4815	4844
9 Mar. (88)	3 Tues	21 37 30	15 Mar. (74)	3 Tues	9987-6592	815-3803	236-6576	4845
9 Mar. (89)	5 Thur.	3 50 0	4 Mar. (64)	1 Sun.	201-9744	698-9068	208-5707	4846

TABLE

			- 1	CONCUI	RENT YE	tar.		
Kali.	Chaitrādi Vikrama. Mēshādi solar year in Bengal.			Kollam.	A.D.	JOVIAN SAN	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	-5	6	7	8
		0	oa	*	.0	6		
4847	1668	1803	1152	920-21	1745-46	59 Krödhana	9 Yuvan	
4848	1069	1804	1153	921-22	1746-47	60 Kshaya	10 Dhātri	
4849	1670	1805	1154	922-23	1747-48	1 Prabhava .	11 Iśvara	1 Chaitra
4850	1671	1806	1155	923-24	1748-49	2 Vibhava .	12 Bahudhānya .	
4851	1672	1807	1156	924-25	1749-50	3 Šukla .	13 Pramāthin .	6 Bahudhānya
4852	1973	1808	1157	925-26	1750-51	4 Pramôda .	14 Vikrama .	***
4853	1674	1809	1158	926-27	1751-52	5 Prajapati .	15 Vrisha	***
4854	1675	1810	1159	927-28	*1752-53	6 Angiras	16 Chitrabhānu .	4 Äshädha
4855	1676	1811	1160	928-29	1753-54	7 Śrimukha .	17 Subhānu .	100
4856	1677	1812	1161	929-30	1754-55	8 Bhāva	18 Tăraņa	
4857	1678	1813	1162	930-31	1755-56	9 Yuvan	19 Pärthiva	3 Jyéshtha
4858	1679	1814	1163	931-32	*1756-57	10 Dhātri	20 Vyaya	***
4859	1680	1815	1164	932-33	1757-58	11 Iśvata	21 Sarvajit† .	7 Asvina
4860	1681	1816	1165	933-34	1758-59	12 Bahudhānya .	23 Virsdhin .	174
4861	1682	1817	1166	934-35	1759-60	13 Pramāthin .	24 Vikrita	***
4862	1683	1818	1167	935-36	*1760-61	14 Vikrama .	25 Khara	5 Śrāvaņa
4863	1684	1819	1168	936-37	1761-62	15 Vrisha	26 Nandana .	***
4864	1685	1820	1169	937-38	1762-63	16 Chitrabhanu .	27 Vijaya	
4865	1686	1821	1170	938-39	1763-64	17 Subhānu .	28 Jaya	4 Āshādha
4866	1687	1822	1171	939-40	*1764-65	18 Tăraņa	29 Manmatha .	
4867	1688	1823	1172	940-41	1765-66	19 Pārthiva .	30 Durmukha .	446
4868	1689	1824	1173	941-42	1766-67	20 Vyaya	31 Hemalamba .	1 Chaitra
4869	1690	1825	1174	942-43	1767-68	21 Sarvajit .	32 Vilamba .	***
4870	1691	1826	1175	943-44	*1768-69	22 Sarvadhārin .	33 Vikārin	5 Scävana
4971	1692	1827	1176	944-45	1769-70	23 Virodhin .	34 Sărvaris	

^{† 22} Sarvadhärin was suppressed in the North.

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Day and month, A.D. 13 29 Mar. (88) 6 29 Mar. (88) 0 29 Mar. (88) 1 29 Mar. (89) 3 29 Mar. (88) 4	Week-day. 14 Fri Sat	Time of true Měshasamkránti. 17 H. M. S. 10 2 30 16 15 0	Day and month, A.D.	YEAR (MEACHAITEA Week-day,	SUNRISE SURLA I EN	of DAY ON DED).	c.	Kali.
29 Mar. (88) 6 29 Mar. (88) 0 29 Mar. (88) 1 29 Mar. (89) 3 29 Mar. (89) 4	14 Fri Sat Sun	true Měsha- samkránti. 17 H. M. S. 10 2 30	month, A.D.	day.			c.	7114
29 Mar. (88) 6 29 Mar. (88) 0 29 Mar. (88) 1 29 Mar. (89) 3 29 Mar. (88) 4	Fri Sat Sun	H. M. S. 10 2 30		20	23	04		
29 Mar. (88) 0 29 Mar. (88) 1 29 Mar. (89) 3 29 Mar. (88) 4	Sat	10 2 30	20.35	-	-	24	25	1
29 Mar. (88) 0 29 Mar. (88) 1 29 Mar. (89) 3 29 Mar. (88) 4	Sat	10 2 30	20.25					-
29 Mar. (88) 1 29 Mar. (89) 3 29 Mar. (88) 4	Sun	16 15 0	23 Mar. (82)	0 Sat	236-6140	634-8902	259-8813	4847
29 Mar. (89) 3 29 Mar. (88) 4	and the same		12 Mar. (71)	4 Wed.	112-2974	482-1250	229-0575	4848
29 Mar. (88) 4	Pare	22 27 30	1 Mar. (60)	1 Sun	9987-9809	329-3599	198-2335,	4849
	Tues.	4 40 0	19 Mar. (79)	0 Sat	22-6204	265-3434	249-5433	1850
29 Mar. (88) 5	Wed.	10 52 30	8 Mar. (67)	4 Wed.	9898-3038	112-5782	219-7194	4851
THE PARTY NAMED TO SERVE AND ADDRESS OF THE PA	Thur.	17 5 0	27 Mar. (86)	3 Tues.	9932-9434	48-5617	270-0292	4852
29 Mar. (88) 6	Fri	23 17 30	17 Mar. (76)	1 Sun	147-2587	932-0882	241-9431	4853
29 Mar. (89) 1	Sun.	5 30 0	5 Mar. (65)	5 Thur.	22-9421	779-3229	211-1193	4854
	Mon	11 42 30	4 Apr. (94)‡	4 Wed	57-5817	715-3058	262-4289	4855
	Tues	17 55 0	24 Mar. (83)	1 Sun	9933-2651	562-5413	231-6051	4856
CONTRACTOR STATES	Thur,	0 7 30	13 Mar, (72)	5 Thur.	9808-9484	409-7760	200-7812	4857
VALUE AND DESCRIPTION OF THE PARTY OF THE PA	Fri.	6 20 0	31 Mar. (91)	4 Wed	9843-5881	345:7595	252-0910	4858
A1	Sat.	12 32 30	20 Mar. (79)	1 Sun	9719-2715	192-9944	221-2671	4859
The Date of the Land	Sun.	18 45 0	8 Apr. (98)	0 Sat	9753-9111	128-9779	272-5768	4860
2012/7/12/2007	Tues	0 57 30	29 Mar. (88)	5 Thur.	9968-2263	12-5043	244-4908	4861
	Wed.	7 10 0	18 Mar. (78)	3 Tues	182-5416	896-0307	216-4046	4862
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Thur.	13 22 30	6 Apr. (96)	2 Mon	217-1812	832-0143	267-7144	4863
Territoria de	Fri	19 35 0	26 Mar. (85)	6 Fri	92-8646	679-2490	236-8905	4864
(\$10.10 KIN (\$10.000) 0	Sun.	1 47 30	15 Mar. (74)	3 Tues	9968-5480	526-4839	206-0667	4865
	Mon	8 0 0	2 Apr. (93)	2 Mon	3.1876	462-4674	257-3764	4866
	Tues	14 12 30	22 Mar. (81)	6 Fri	9878-8710	309-7022	226-5526	4887
	Wed.	20 25 0	11 Mar. (70)	3 Tues	9754-5544	156-9270	195-7286	4868
was the later	Fri.	2 37 30	30 Mar. (89)	2 Mon	9789-1940	91-9205	247-0384	4869
The second of the	Sat,	8 50 0	19 Mar. (79)	0 Sat	3-5093	976-4470	218-9523	4870
AN ARTHUR DAY	Sun.	15 2 30	7 Apr. (97)	6 Fri	38-1489	912-4304	270-2621	4871

		H		CONCUE	RENT YE	AR.		
		ikrama.	solar year		013	JOVIAN SA	SEVATBARA.	INTERCALATED (adhika) and SUPPRESSED (kashaya) LUNAR
Kali.	Saka.	Chaitrādi Vikrama.	Möshädi so in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	MONTHS (true).
1	2	3	3a	4	5	6	7	8
4872	1693	1828	1177	945-46	1770-71	24 Vikrita	35 Plana	(85
4873	1694	1829	1178	946-47	1771-72	25 Khara	36 Subbakrit .	4 Ashādha .
4874	1695	1830	1179	947-48	*1772-73	26 Nandana .	37 Sõbhana .	**
4875	1696	1831	1180	948-49	1773-74	27 Vijaya	38 Krödhin .	- 19
4876	1697	1832	1181	949-50	1774-75	28 Jaya	39 Višvāvasu .	2 Vaišākha .
4877	1608	1833	1182	950-51	1775-76	29 Manmatha .	40 Parābhava .	1 KH 15
4878	1699	1834	1183	951-52	*1776-77	30 Durmukha .	41 Plavanga .	7 Asvina.
4879	1700	1835	1184	952-53	1777-78	31 Hēmalamba .	42 Kilaka	277
4880	1701	1836	1185	953-54	1778-79	32 Vilamba .	43 Saumya.	
4881	1702	1837	1186	954-55	1779-80	33 Vikārin	44 Sādhāraņa .	5 Śrāvaņa .
4882	1703	1838	1187	955-56	*1780-81	34 Šārvarin .	45 Virôdhakṛit .	144
4885	1704	1839	1188	956-57	1781-82	35 Plava	46 Paridhāvin .	**
4884	1705	1840	1189	957-58	1782-83	36 Subhakrit .	47 Pramādin .	3 Jyështha .
488	1706	1841	1190	958-59	1783-84	37 Söbhana .	48 Ånanda .	1.27
4886	1707	1842	1191	959-60	*1784-85	38 Krödhin	49 Räkshasa .	231
488	1708	1843	1192	960-61	1785-86	39 Vlávávasu .	50 Anala	1 Chaitra .
4888	1709	1844	1193	961-62	1786-87	40 Parābhava .	51 Pingala .	100
488	1710	1845	1394	962-63	1787-88	41 Piavanga .	53 Kalayukta .	5 Śrāvana .
489	1711	1846	1195	963-64	*1788-89	42 Kilaka	53 Siddharthin .	10
489	1712	1847	1196	964-65	1789-90	43 Saumya	54 Raudra .	
459	1713	1848	1197	965-66	1790-91	44 Sādhāraņa .	55 Durmati .	4 Åshådha .
480	1714	1849	1198	966-67	1791-92	45 Virôdhakrit .	56 Dundubhi .	
489	1715	1850	1199	967-68	*1792-93	46 Paridhāvin :	57 Rudhirödgårin	***
489	1716	1851	1200	968-69	1793-94	47 Pramādin .	58 Raktāksha .	2 Vnišákha .
489	1717	1852	1201	969-70	1794-95	48 Ånanda .	59 Krődhana .	**

LXI-Contd.

		CO1	MENCEMENT	OF THE						
Sc	DLAR YEAR.		LUNT-SOLAR	LUNI-SOLAR YEAR (MEAN SUNRISE OF DAY ON WHICH CHAITRA SURLA 1 ENDED).						
Day and month, A.D.	Week-day.	Time of true Mësha- samkränti,	Day and month, A.D.	Week- day.	α,	ь.	c.			
13	14	17	19	20	23	24	25	1		
		H. M. S.								
9 Apr. (99)	2 Mon	21 15 0	28 Mar. (87)	4 Wed.	252-4642	795-9569	242-1760	4872		
10 Apr. (100)	4 Wed	3 27 30	17 Mar. (76)	1 Sun.	128-1476	643-1917	211-3522	4872		
9 Apr. (100)	5 Thur.	9 40 0	4 Apr. (95)	0 Sat	162-7872	579-1752	262-6618	487		
9 Apr. (99)	6 Fri	15 52 30	24 Mar. (83)	4 Wed	38-4706	426-4100	231-8380	487		
9 Apr. (99)	0 Sat	22 5 0	13 Mar. (72)	1 Sun	9914-1539	273-6448	201-0141	487		
10 Apr. (100)	2 Mon	4 17 30	1 Apr. (91)	0 Sat, .	9948-7935	209-6283	252-3239	487		
9 Apr. (100)	3 Tues	10 30 0	20 Mar. (80)	4 Wed	9824-4769	56-8631	221-5000	487		
9 Apr. (99)	4 Wed	16 42 30	8 Apr. (98)	3 Tues	9859-1165	992-8466	272-8097	487		
9 Apr. (99)	5 Thur.	22 55 0	29 Mar. (88)	1 Sun	73-4318	876-3731	244-7237	488		
10 Apr. (100)	0 Sat	5 7 30	19 Mar. (78)	6 Fri	287:7470	759-8994	216-6375	488		
9 Apr. (100)	1 Sun.	11 20 0	5 Apr. (96)	4 Wed	9983-7548	659-5914	265-2095	488		
9 Apr. (99)	2 Mon	17 32 30	26 Mar, (85)	2 Mon	198-0700	544-1178	237-1234	488		
9 Apr. (99)	3 Tues	23 45 0	15 Mar. (74)	6 Fri	73-7534	390-3525	206-2996	488		
10 Apr. (100)	5 Thur.	5 57 30	2 Apr. (92)	4 Wed	9769-7612	290-0445	254-8715	488		
9 Apr. (100)	6 Fri	12 10 0	22 Mar. (82)	2 Mon	9984-0764	173-5709	226-7854	488		
9 Apr. (99)	0 Sat	18 22 30	11 Mar. (70)	6 Fri.	9859-7598	20-8058	195-9615	488		
10 Apr. (100)	2 Mon	0 35 0	30 Mar. (89)	5. Thur.	9894-3994	956-7892	247-2713	488		
10 Apr. (100)	3 Tues	6 47 30	20 Mar. (79)	3 Tues	108-7147	840-3157	219-1852	488		
9 Apr. (100)	4 Wed	13 0 0	7 Apr. (98)	2 Mon	143-3443	776-2992	- 270-4950	489		
9 Apr. (99)	5 Thur.	19 12 30	27 Mar. (86)	6 Fri	19-0377	623-5339	239-6711	485		
10 Apr. (100)	0 Sat	1 25 0	16 Mar. (75)	3 Tues	9894-7211	470-7688	208-8473	489		
10 Apr. (100)	1 Sun		4 Apr. (94)	2 Mon	9929-3507	406-7523	260-1569	489		
9 Apr. (100)	2 Mon	13 50 0	23 Mar. (83)	6 Fri .	9805-0441	253-9871	229-3332	48		
9 Apr. (99)	3 Tues.	20 2 30	13 Mar. (72)	4 Wed	19-3593	137-5135	201-2470	489		
10 Apr. (100)	5 Thur.	2 15 (The Court	3 Tues	53-9990	73-4971	252-5567	48		

			T	CONCU	RRENT YE	CAR.		
Kali.	Śaka.	Chaitradi Vikrama.	Měshědi solar year in Bengal.	Kollam.	A.D.	Jovian Sai Southern system.	Northern system.	INTERCALATED (adhika) and SUPPRESSED (kshayu) LUNAR MONTHS (true).
1	2	3	3a	4	5	6	7	, 8
		-						100
4897	1718	1853	1202	970-71	1795-96	49 Rākshasa .	60 Kshaya	6 Bhādrapada .
4898	1719	1854	1203	971-72	*1796-97	50 Anala	1 Prabhava .	
4899	1720	1855	1204	972-73	1797-98	51 Pingala	2 Vibhava	***
4900	1721	1856	1205	973-74	1798-99	52 Kālayukta .	3 Śukla	5 Śrāvaņa .
4901	1722	1857	1206	974-75	1799-1800	53 Siddhärthin .	4 Pramôda .	346
4902	1723	1858	1207	975-76	1800-018	54 Raudra	5 Prajāpati .	200
4903	1724	1850	1208	976-77	1801-02	55 Durmati .	6 Angiras	3 Jyéshtha .
4904	1725	1860	1209	977-78	1502-03	56 Dundubhi ,	7 Śrimukha	200
4905	1726	1861	1210	978-79	1803-04	57 Budhirödgárin	8 Bhāva	\$40
4906	1727	1862	1211	979-80	*1804-05	58 Raktāksha .	9 Yuvan	1 Chaitra
4907	1728	1863	1212	980-81	1805-06	59 Krödhana	10 Dhātri	Sec. 13
4908	1729	1864	1213	981-82	1806-07	60 Kshaya	11 Išvara	5 Śrāvaņa .
4909	1730	1865	1214	982-83	1807-08	1 Prabhava .	12 Bahudhānya .	200
4910	1731	1866	1215	983-84	*1808-09	2 Vibhava.	13 Pramāthin	***
4911	1732	1867	1216	984-85	1809-10	3 Šukla	I4 Vikrama	4 Åshädha .
4912	1733	1868	1217	985-86	1810-11	4 Pramoda .	15 Vrisha	946
4913	1734	1869	1218	986-87	1811-12	5 Prajápati .	16 Chitrabhanu .	244
4914	1735	1870	1219	987-88	*1812-13	6 Angiras	17 Subhānu .	2 Vaišākha .
4915	1736	1871	1220	988-89	1813-14	7 Śrimukha .	18 Tāraņa	·
4916	1737	1872	1221	989-90	1814-15	8 Bhava	19 Pārthiva	6 Bhādrapada .
4917	1738	1873	1222	990-91	1815-16	9 YuvanŢ	20 Vyaya	***
4918	1739	1874	1223	991-92	*1816-17	10 Dhātri	21 Sarvajit .	544
4919	1740	1875	1224	992-93	1817-18	11 Iávara	22 Sarvadhārin .	5 Śrávaņa .
4920	1741	1876	1225	993-94	1818-19	12 Bahudhānya .	23 Virödhin .	200
4921	1742	1877	1226	994-95	1819-20	13 Pramāthin .	24 Vikṛita	
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					COM	MENCEMENT	OF THE				
	Son	LAR YEAR.				LUNI-SOLAR		an sunrise śukta 1 en	OF DAY ON DED).	which	Kali.
Day	and , A.D.	Week- day.	true	ime o Mēs ikrāi	ha-	Day and month. A.D.	Week- day.	a.	b.	6.	
1	3	14		17	1	19	20	23	24	25	1
10 Apr.	(100)	6 Fri	H. 8	M. 27	S. 30	21 Mar. (80)	0 Sat	9929-6824	920-7319	221-7329	4897
9 Apr		0 Sat	14	40	0	8 Apr. (99)	6 Fri.	9964-3220	856-7153	273-0426	4898
9 Apr		1 Sun	20	52	30	29 Mar. (88)	4 Wed	178-6372	740-2418	244-9565	4899
10 Apr		3 Tues	3	5	0	18 Mar. (77)	1 Sun.	54-3206	587-4766	214-1326	4900
10 Apr		4 Wed.	9	17	30	6 Apr. (96)	0 Sat	88-9603	522-4602	265-4424	4901
10 Apr	VERY	5 Thur.	15	30	0	26 Mar. (85)	4 Wed	9964-6436	370-6950	234-6186	4902
10 Apr	2004	6 Fri.	21	42	30	15 Mar. (74)	1 Sun	9840-3270	217-9297	203-7948	4903
11 Apr	. (101)	1 Sun	3	55	0	3 Apr. (93)	0 Sat	9874-9667	153-9133	255-1044	4904
11 Apr		2 Mon	10	7	30	24 Mar. (83)	5 Thur.	89-2819	37-4397	227-0184	4905
10 Apr	. (101)	3 Tues	16	20	0	12 Mar. (72)	2 Mon	9964-9653	884-6745	196-1945	4906
10 Apr	. (100)	4 Wed	22	32	30	31 Mar. (90)	1 Sun	9999-7049	820-6580	247-5043	4907
11 Apr	(101)	6 Fri.	4	45	0.	21 Mar. (80)	6 Fri	213-9202	704-1845	219-4182	4908
11 Apr	(101)	0 Sat	10	57	30	9 Apr. (99)	5 Thur.	248-5598	640-1680	270-7280	4909
10 Apr	(101)	1 Sun	17	10	0	28 Mar. (88)	2 Mon	124-2432	487-4027	339-9041	4910
10 Apr	(100)	2 Mon	23	22	30	17 Mar. (76)	6 Fri	9999-9266	334-6376	209-0802	4911
11 Apr	. (101)	4 Wed	5	35	0	5 Apr. (95)	5 Thur.	34-5662	270-6211	260-3899	4912
11 Apt	. (101)	5 Thur.	11	47	30	25 Mar. (84)	2 Mon	9910-2496	117-8558	229-5661	4913
10 Apr	. (101)	d Fri	18	0	0	14 Mar. (74)	0 Sat.	124:5648	1-3823	201-4800	4914
11 Apr	. (101)	1 Sun.	0	12	30	2 Apr. (92)	6 Fri.	159-2044	937-3658	252-7898	4915
11 Apr	r. (101)	2 Mon	6	25	0	22 Mar. (81)	3 Tues	34-8878	784-7007	221-9659	49)6
11 Apr	r. (101)	3 Tues	12	37	30	10 Apr. (100)	2 Mon	69-527-5	720-5841	273-2755	4917
10 Ap	r. (101)	4 Wed	18	50	0	29 Mar. (89)	6 Fri	9945-2109	566-8190	242-4517	4918
11 Ap	r, (101)	6 Fri	1	2	30	18 Mar. (77)	3 Tues	9820-8942	415-0538	211-5279	4919
11 Ap	r. (101)	0 Sat .	7	15	U	6 Apr. (96)	2 Mon	9855-5338	351-0372	262 0376	4920
11 Ap	r, (101)	1 Sun	13	27	30	26 Mar. (85)	6 Fri	9731-2172	190-2721	232-1138	4921

TABLE

							_	2	
				CONC	URBENT	YEAR.			
		crama.	ır year		11 - 15	JOVIAN S	SAM	VATSARA.	Intercalated (adhika) and suppressed
Kali.	Śaka.	Chaitradi Vikrama-	Meshādi solar in Bengal.	Kollam.	A.D.	Southern system.		Northern system.	(kshaya) LUNAR MONTHS (true).
1	2	3	3a	4	5	6		7	8
4922	1743	1878	1227	995-96	*1820-21	14 Vikrama	6	25 Khara	3 Jyështha ,
4923	1744	1879	1228	996-97	1821-22	15 Vrisha .	×	26 Nandana .	0.0000000000000000000000000000000000000
4924	1745	1880	1229	997-98	1822-23	16 Chitrabhānu	*	27 Vijaya	(7 Asvina (10 Pausha (Ksh)
4925	1746	1881	1230	998-99	1823-24	17 Subhānu		28 Jaya	1 Chaitra
4926	1747	1882	1231	999-1000	*1824-25	18 Tāraņa .	ž.	29 Manmatha .	1944
4927	1748	1883	1232	1000-01	1825-26	19 Pārthiva	*	30 Durmukha .	5 Śrāvaņa .
4928	1749	1884	1233	1001-02	1826-27	20 Vyaya .	•	31 Hémalamba .	2000
4929	1750	1885	1234	1002-03	1827-28	21 Sarvajit	*1	32 Vilamba	223
4930	1751	1886	1235	1003-04	*1828-29	22 Sarvadhārin		33 Vikārin	4 Ashādha .
4931	1752	1887	1236	1004-05	1829-30	23 Virðdhin	8	34 Śārvarin .	1844
4932	1753	1888	1237	1005-06	1830-31	24 Vikrita .	231	35 Playa	2404
4933	1754	1889	1238	1006-07	1831-32	25 Khara .	£	36 Śubhakrit .	2 Vaišākha .
4934	1755	1890	1230	1007-08	*1832-33	26 Nandana	*	37 Śōbhana .	100
4935	1756	1891	1240	1008-09	1833-34	27 Vijaya .		38 Krödhin .	6 Bhādrapada .
4936	1757	1892	1241	1009-10	1834-35	28 Jaya .	31	39 Višvāvasu .	***
4937	1758	1893	1242	1010-11	1835-36	29 Manmatha	4	40 Parābhava .	1560
4938	1759	1894	1243	1011-12	*1836-37	30 Durmukha	•	41 Piavanga .	4 Ashādha .
4939	1760	1895	1244	1012-13	1837-38	31 Hémalamba	(6.)	42 Kilaka	***
4940	1761	1896	1245	1013-14	1838-39	32 Vilamba	٠	43 Saumya .	***
4941	1762	1897	1246	1014-15	1839-40	33 Vikārin .		44 Sādhāraņa .	3 Jyështha .
4942	1763	1898	1247	1015-16	*1840-41	34 Śārvarin	1 0	45 Virðdhakrit .	1444
4943	The same	1899	1248	1016-17	1841-42	35 Plava	ě	46 Paridhāvin	(7 Äśvina (11 Māgha (Ksh)
4944	1765	1900	1249	1017-18	1842-43	36 Śubhakrit		47 Pramādin† .	ı Chaitea .
4945	100740	1901	1250	1018-19	1843-44	37 Śōbhana		49 Rakshasa .	***
4946	NAVE OF STREET	1902	1251	1019-20	*1844-45	38 Krödhin	•	50 Anala	5 Srāvaņa ,
-	1					15.45.37	-		

^{† 48} Ananda was suppressed in the North.

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		co	MMENCEMENT	OF THE				
So	LAR YEAR.		LUNI-SOLA		ean sunrise ukla 1 end		w witch	Kali.
Day and month, A.D.	Week- day.	Time of true Měsha sarhkränti.	Day and month, A.D.	Week-day,	a.	ь,	c,	
13	14	17	19	20	23	24	25	1
10		-	- 17		546		- Tr	-
10 Apr. (101)	2 Mon	H. M. S.	15 Mar. (75)	4 Wed	9945-5324	81-7985	204-0277	4922
11 Apr. (101)	4 Wed.	1 52 30	- CO - CO - CO - CO - CO - CO - CO - CO	3 Tues	9980-1723	17:7821	255-3373	4923
11 Apr. (101)	5 Thur.	8 5 0	- Certification (Control	1 Sun.	194-4873	901-3084	227-2513	4924
11 Apr. (101)	6 Fri	14 17 30	13 Mar. (72)	5 Thur.	70-1767	748-5433	196-4274	4925
10 Apr. (101)	0 Sat	20 30 0		4 Wed	104-8103	684-5268	247-7372	4926
11 Apr. (101)	2 Mon	2 42 30	20 Mar. (79)	1 Sun	9980-4937	531-7615	216-9133	4927
11 Apr. (101)	3 Tues	8 55 0	8 Apr. (98)	0 Sat	15-1333	467-7451	268-2231	4928
11 Apr. (101)	4 Wed	15 7 30	28 Mar. (87)	4 Wed	9890-8167	314-9799	237-3992	4929
10 Apr. (101)	5 Thur.	21 20 0	16 Mar. (76)	1 Sun.	9766-5001	162-2147	206-5753	4930
11 Apr. (101)	0 Sat	3 32 30	4 Apr. (94)	0 Sat	9801-1397	98-1982	257-8848	4931
11 Apr. (101)	1 Sun	9 45 0	25 Mar. (84)	5 Thur.	15-4550	981-7246	229-7990	4932
11 Apr. (101)	2 Mon	15 57 30	15 Mar. (74)	3 Tues	229-7702	865-2510	201-7129	4933
10 Apr. (101)	3 Tues	22 10 0	2 Apr. (93)	2 Mon	264-4099	801-2346	253-0226	4934
11 Apr. (101)	5 Thur.	4 22 30	22 Mar. (81)	6 Fri	140-0933	618-4694	222-1988	4935
11 Apr. (101)	6 Fri	10 35 0	10 Apr. (100)	5 Thur.	174-7329	584-4529	273-5084	4936
11 Apr. (101)	0 Sat	16 47 30	30 Mar. (89)	2 Mon	50-4163	431-6877	242-6846	4937
10 Apr. (101)	1 Sun	23 0 0	18 Mar. (78)	6 Fri	9926-0997	279-9225	211-8608	4938
11 Apr. (101)	3 Tues	5 12 30	6 Apr. (96)	5 Thur,	9960-7393	214-9060	263-1705	4939
11 Apr. (101)	4 Wed, .	11 25 0	26 Mar. (85)	2 Mon	9836-4227	62-1408	232-3467	4940
11 Apr. (101)	5 Thur.	17 37 30	16 Mar. (75)	0 Sat	50-7379	945-6672	204-2606	4941
10 Apr. (101)	6 Fri	23 50 0	3 Apr. (94)	6 Fri	85-3775	881-6508	255-5703	4942
11 Apr. (101)	1 Sun	6 2 30	24 Mar. (83)	4 Wed	299-6928	765-1772	327-4342	4943
11 Apr. (101)	2 Mon	12 15 0	13 Mar. (72)	1 Sun	175-3762	612-4120	196 6603	4944
11 Apr. (101)	3 Tues	18 27 30	1 Apr. (91)	0 Sat	210-0338	548-3955	247-9701	4945
11 Apr. (102)	5 Thur.	0 40 0	20 Mar. (80)	4 Wed	85-6992	395-6303	217-1463	4946

TABLE

	CONCURRENT YEAR.											
Keli	Śaka.	Chaitridi Vikoma.	Meshaili nolar year in Bengal.	Kollam.	A.D.	Jovian Sam Southern system.	Northern system.	INTERCALATED (adhika) and suppressed (kahaya) Lunar Months (true).				
-1	2	3 Oh	34									
	2	3	34	4	5	6	7	8				
4947	1768	1903	1252	1020-21	1845-46	39 Višvāvasu .	51 Piágala					
4948	1769	1904	1253	1021-22	1846-47	40 Parābhava .	52 Kālayukta .					
4949	1770	1905	1254	1022-23	1847-48	41 Plavanga .	53 Siddhärthin .	3 Jyështha .				
4950	1771	1906	1255	1023-24	*1848:49	42 Kilaka	54 Raudra					
4951	1772	1907	1256	1024-25	1849-50	43 Saumya	55 Durmati .					
4952	1773	1908	1257	1025-26	1850-51	44 Sādhāraņa .	56 Dundubhi .	2 Vaišākha .				
4953	1774	1909	1258	1026-27	1851-52	45 Virôdhakrit .	57 Rudhirêdgarin					
4954	1775	1910	1259	1027-28	*1852-53	46 Paridhāvin .	58 Raktāksha .	6 Bhādrapada .				
4955	1776	1911	1260	1028-29	1853-54	47 Pramādin ,	59 Krčdhana .	***				
4956	1777	1912	1261	1029-30	1854-55	48 Ānanda .	60 Kshaya .					
4957	1778	1913	1262	1030-31	1855-56	49 Rākshasa .	1 Prubhava .	4 Āshādha .				
4958	1779	1914	1263	1031-32	*1856-57	50 Anala	2 Vibhana .	144				
4959	1780	1915	1264	1032-33	1857-58	51 Pingala .	3 Śukla	344				
4960	1781	1916	1265	1033-34	1858-59	52 Kālayukta .	4 Pramöda .	3 Jyéshtha .				
4961	1782	1917	1266	1034-35	1859-60	53 Siddhārthin .	5 Prajāpati .					
4962	1783	1918	1267	1035-36	*1860-61	54 Raudra .	6 Angiras .	7 Asvina				
4963	1784	1919	1268	1036-37	1861-62	55 Durmati .	7 Śrimukha .	1				
4964	1785	1920	1269	1037-38	1862-63	56 Dundubhi .	8 Bhāva	202				
4965	1786	1921	1270	1038-39	1863-64	57 Rudhirödgarin	9 Yuvan	5 Srāvaņa .				
4966	1787	1922	1271	1039-40	*1864-65	58 Raktāksha .	10 Dhitqi	224				
4967	1788	1923	1272	1040-41	1865-66	59 Krôdhana .	11 Iśvara	***				
4968	1789	1924	1273	1041-42	1866-67	60 Kshaya .	12 Bahudhanya .	3 Jyéshtha .				
4969	1790	1925	1274	1042-43	1867-68	1 Prabhava .	13 Pramāthin .					
4970	1791	1926	1275	1043-44	*1868-69	2 Vibhaya .	14 Vikrama ,					
4971	1792	1927	1276	1044-45	1869-70	3 Śukla	15 Vrisha	2 Vaišākha .				

LXI-Contd.

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			CO	MMENCEMENT	OF THE				
Se	DLAR YEAR			Luni-sol.	AR YEAR (MI CHAITBA	EAN SUNRISE SUKLA 1 EN	OF DAY ON	wицон	Kali,
Day and month, A.D.	Week- day.	Tim true M	fésha	Day and month, A.D.	Week-day.	a.	b.	c	
13	14	1	7	19	20	23	24	25	1
		H. M	. S.			-	170		-
11 Apr. (101)	6 Fri .	6 5		7 Apr. (97)	2 Mon	9781-7069	295-3222	265-7182	4947
11 Apr. (101)	0 Sat.	13	5 0	28 Mar. (87)	0 Sat	9996-0221	178-8486	237-6321	4948
11 Apr. (101)	1 Sun	19 1	30	17 Mar. (76)	4 Wed	9871-7056	26-0835	206-8082	4949
11 Apr. (102)	3 Tues	1 30	0	4 Apr. (95)	3 Tues	9906-3451	962-0670	258-1179	4950
11 Apr. (101)	4 Wed	7 45	30	25 Mar. (84)	1 Sun.	120-6604	845-5933	230-0319	4951
11 Apr. (101)	5 Thur.	13 50	0	14 Mar. (73)	5 Thur.	9996-3438	692-8282	199-2080	4952
11 Apr. (101)	6 Fri	20	30	2 Apr. (92)	4 Wed	30-9834	628-8117	249-5178	4953
11 Apr. (102)	1 Sun. ,	2 20	0	21 Mar. (81)	1 Sun	9906-6668	476-0465	219-6939	4954
11 Apr. (101)	2 Mon.	8 39	30	9 Apr. (99)	0 Sat	9941-3064	412-0390	271-0036	4955
11 Apr. (101)	3 Tues.	14 48	0	29 Mar. (88)	4 Wed	9816-9898	259-2645	240-1797	4956
11 Apr. (101)	4 Wed	20. 57	30	19 Mar. (78)	2 Mon	31-3051	142-7912	212-0937	4957
11 Apr. (102)	6 Fri	3 10	0	6 Apr. (97)	1 Sun.	65-9447	78-7747	263-4034	4958
11 Apr. (101)	0 Sat	9 22	30	26 Mar. (85)	5 Thur.	9941-5281	926-0096	232-5796	4959
11 Apr. (101)	1 Sun	15 35	0	16 Mar. (75)	3 Tues	155-9433	809-5360	204-4935	4960
11 Apr. (101)	2 Mon	21 47	30	4 Apr. (94)	2 Mon	190-5929	745-5195	255-8032	4961
11 Apr. (102)	4 Wed	4 0	0	23 Mar. (83)	6 Fri.	66-2663	592 7543	224-9793	4962
11 Apr. (101)	5 Thur.	10 12	30	11 Apr. (101)	5 Thur.	160-9060	528-7379	276-2890	4963
11 Apr. (101)	6 Fri	16 25	0	31 Mar. (90)	2 Mon	9976-5893	375-9726	245-4652	4964
11 Apr. (101)	0 Sat	22 37	30	20 Mar. (79)	6 Fri	9852-2927	223-2074	214-6413	4965
11 Apr. (102)	2 Mon. ,	4 50	0	7 Apr. (98)	5 Thur.	9886-9124	159-1910	265-9511	4966
11 Apr. (101)	3 Tuea	11 2	30	28 Mar. (87)	3 Tues.	101-2276	42-7174	237-8650	4967
11 Apr. (101)	4 Wed	17 15	0	17 Mar. (76)	0 Sat	9976-9110	889 9522	207-0411	4968
11 Apr. (101)	5 Thur.	23 27	30	5 Apr. (95)	6 Fri	11-5506	825-9357	258-3508	4969
11 Apr. (102)	0 Sat	5 40	0	25 Mar. (85)	4 Wed	225-8659	709-4621-	230-2048	4970
11 Apr. (101)	1 Sun	1) 52	30	14 Mar. (73)	1 Sun	101-5493	550-6969	199 4409	4971
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4992 1814 1949 1298 1066-67 1891-92 25 Khara . 37 Šõbhaua . 4994 1815 1950 1299 1067-68 *1892-93 26 Nandana . 38 Krõdhin 4995 1816 1951 1300 1068-69 1893-94 27 Vijaya . 39 Višvāvasa . 4 Åshādha 4995 1817 1952 1301 1069-70 1894-95 28 Jaya . 40 Parābhava . 4997 1818 1953 †302 1070-71 1895-96 29 Manmatha 41 Plavanga . 4998 1819 1954 1303 1071-72 *1896-97 30 Durmukha . 42 Kīlaka . 3 Jyšshtha 4999 1820 1955 1304 1072-73 1897-98 31 Hēmalamba . 43 Saumya . 5001 1822 1957 1306 1074-75 1899-1900 33 Vikārin . 45 Virōdhakrit .	-				CONC	URRENT Y	YEAR.		
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4975 1796 1931 1290 1048-49 1873-74 7 Srimukha 19 Pārthīva 4976 1797 1932 1281 1049-50 1874-75 8 Bhāva 20 Vyaya 4 Āshāḍha 4977 1798 1933 1282 1050-51 1875-76 9 Yuvan 21 Sarvajit 4978 1790 1934 1283 1051-52 *1876-77 10 Dhātri 22 Sarvadhārin 4979 1800 1935 1284 1052-53 1877-78 11 Lávara 23 Virôdhin 3 Jyēshtha 4981 1802 1937 1286 1064-55 1879-80 13 Pramāthio 25 Khara 7 Kświna 4982 1803 1938 1287 1055-56 *1880-81 14 Vūrama 26 Nandana 7 Kświna 27 Vjaya 3 Namātha	4973	1794	1929	1278	1046-47	1871-72	5 Prajāpati .	17 Subhānu .	6 Bhādrapada.
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4979 1800 1935 1284 1052.53 1877.78 11 lávara	4977	1798	1933	1282	1050-51	1875-76	9 Yuvan	21 Sarvajit.	177
4980 1801 1935 1285 1053-54 1878-79 12 Bahudhānya . 24 Vikrita	4978	1799	1934	1283	1051-52	*1876-77	10 Dhātri	22 Sarvadhārin .	3999
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4983 1804 1939 1288 1056-57 1881-82 15 Vrisha . 27 Vijaya . . 4984 1805 1940 1289 1057-58 1882-83 16 Chitrabhānu . 28 Jaya . 5 Śrāvaņa . 4985 1806 1941 1290 1058-59 1883-84 17 Subhānu . 29 Manmātha . 4986 1807 1942 1291 1059-60 *1884-85 18 Tāraņs . 30 Durmukha . 4987 1808 1943 1292 1060-61 1885-86 19 Pārthiva . 31 Hēmalamba . 4981 1809 1944 1293 1061-62 1886-87 20 Vyaya . .32 Vilamba 4989 1810 1945 1294 1062-63 1887-88 21 Sarvajīt .	4981	1802	1937	1286	1064-55	1879-80	13 Pramathin .	25 Khara	7 Asvina .
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4991 1818 1947 1296 1064-65 1889.90 23 Víródhin . 35 Playa	4989	1810	1945	1294	1062-63	1887-88	21 Sarvajit	33 Vikārin .	***
4992 1813 1948 1297 1063-06 1890-91 24 Vikrita 36 Śubhskrit . 6 Bhādrapada	4990	1811	1946	1295	1063-64	*1888-89	22 Sarvadhārin ,	34 Śārvarin .	1 Chaitra .
4992 1814 1949 1298 1066-67 1891-92 25 Khara . 37 Śōbhana . 4994 1815 1950 1299 1067-68 *1892-93 26 Nandana . 38 Krōdhin 4995 1816 1951 1300 1068-69 1893-94 27 Vijaya . 39 Višvāvasa . 4 Åshāḍha 4995 1817 1952 1301 1069-70 1894-95 28 Jaya . 40 Parābhava . 4997 1818 1953 7302 1070-71 1895-96 29 Manmatha 41 Plavanga . 4998 1819 1954 1303 1071-72 *1896-97 30 Durmukha . 42 Kīlaka . 3 Jyšshtha 4999 1820 1955 1304 1072-73 1897-98 31 Hēmalamba . 43 Saumya . 5001 1822 1957 1306 1074-75 1899-1900 33 Vikārin . 45 Virōdhakrit .	4991	1818	1947	1296.	1064-65	1889-90	23 Víródhin .	35 Playa	(44)
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4995 1817 1952 1301 1069-70 1894-95 28 Jaya . 40 Parābhava . 4997 1818 1953 1302 1070-71 1895-96 29 Manmatha . 41 Plavanga . 4998 1819 1954 1303 1071-72 *1896-97 30 Durmukha . 42 Kīlaka . 3 Jyēshtha 4999 1820 1955 1304 1072-73 1897-98 31 Hēmalamba . 43 Saumya . . 5000 1821 1956 1305 1073-74 1899-1900 32 Vilamba . 45 Virōdhakrit . . 5001 1822 1957 1306 1074-75 1899-1900 33 Vikārin . 45 Virōdhakrit .	4994	1815	1950	1299	1067.68	*1892-93	26 Nandana .	38 Krödhin	***
4997 1818 1953 7302 1070-71 1895-96 29 Manmatha . 41 Plavanga . 4998 1819 1954 1303 1071-72 *1896-97 30 Durmukha . 42 Kïlaka . 3 Jyështha 4999 1820 1955 1304 1072-73 1897-98 31 Hëmalamba . 43 Saumya . 5000 1821 1956 1305 1073-74 1898-99 32 Vilamba . 44 Śādhāraṇa . 7 Āģrīi a . 5001 1822 1957 1306 1074-75 1899-1900 33 Vikārin . 45 Virōdhakrit .	4995	1816	1951	1300	1008-69	1893-94	27 Vijaya	39 Visyāvasa .	4 Åshādha .
4998 1819 1954 1303 1071-72 *1896-97 30 Durmukha 42 Kïlaka 3 Jyështha 4999 1820 1955 1304 1072-73 1897-98 31 Hëmalamba 43 Saumya 5900 1821 1956 1305 1073-74 1898-99 32 Vilamba 44 Śādhāraṇa 7 Āārīna 5001 1822 1957 1306 1074-75 1899-1900 33 Vikārīn 45 Virōdhakrit	4995	1817	1952	1301	1069-70	1894.95	28 Jaya	40 Parābhava .	-
4999 1820 1955 1304 1072-73 1897-98 31 Hēmalamba . 43 Saumya	4997	1818.	1953	1302	1070-71	1895-96	29 Manmatha .	41 Playanga .	1111 ##3
5000 1821 1956 1305 1073-74 1898-90 32 Vilamba . 44 Śādhāraņa . 7 Āśrira . 5001 1822 1957 1306 1074-75 1899-1900 33 Vikārin . 45 Virōdhakrit	4998	1819	1954	1303	1071-72	*1896-97	30 Durmukha .	42 Kilaka .	3 Jyështha .
5001 1822 1957 1306 1074-75 1899-1900 33 Vikārin . 45 Virōdhakrit	4999	1820	1955	1304	1072-73	1897-98	31 Hēmalamba .	43 Saumya	(4)
	5000	1821	1956	1305	1073-74	1898-99	32 Vilamba .	44 Śādhāraņa .	7 Airha.
	5001	1822	1957	1306	1074-75	1899-1900	33 Vikārin .	45 Virôdhakrit .	140
5002 1823 1958 1307 1975-76 \$1900-01 34 Sarvarin . 46 Paridhavin		1823	1958	1307	1075-76	§1900-01	34 Šārvarin .	46 Paridhāvin	- AFF -

§ The year 1900 A.D. was not a Leap-year.

LXI-Concld.

			COM	MENCEMENT	OF THE				
So	LAR YEAR.			LUNT-SOLAR		AN SUNRISE SUKLA 1 ENT		WHICH	
Day and month, A.D.	Week- day.	Time true Me samkrii	sha	Day and month, A.D.	Week- day.	a,	ь.	c.	Kali
13	14	17		19	20	23	24	25	1
13 11 Apr. (101) 12 Apr. (102) 11 Apr. (102) 11 Apr. (101) 11 Apr. (101) 12 Apr. (102) 11 Apr. (102) 11 Apr. (101) 11 Apr. (101) 12 Apr. (102) 11 Apr. (102) 11 Apr. (101) 12 Apr. (101) 13 Apr. (101) 14 Apr. (101) 15 Apr. (102) 16 Apr. (102) 17 Apr. (101) 18 Apr. (101) 19 Apr. (101) 11 Apr. (101) 11 Apr. (101) 11 Apr. (101) 11 Apr. (101) 11 Apr. (102) 11 Apr. (102) 11 Apr. (102) 11 Apr. (101)	2 Mon 4 Wed 5 Thur. 6 Fri 0 Sat 2 Mon 3 Tues. 4 Wed 5 Thur. 0 Sat 1 Sun 2 Mon 3 Tues. 5 Thur. 1 Sun 2 Mon 3 Tues. 5 Thur. 6 Fri 0 Sat 1 Sun 1 Sun	17 H. M. 18 5 0 17 6 30 12 42 18 55 1 7 20 13 32 19 45 1 57 8 10 14 22 20 35 2 47 9 0 15 12 21 25 3 37 9 50 16 2	S. 0 30 0 30 0 30 0 30 0 30 0 30 0 30 0	19 2 Apr. (92) 22 Mar. (81) 9 Apr. (100) 29 Mar. (88) 19 Mar. (78) 7 Apr. (97) 26 Mar. (86) 16 Mar. (75) 3 Apr. (93) 23 Mar. (82) 10 Apr. (101) 30 Mar. (89) 20 Mar. (79) 8 Apr. (98) 28 Mar. (88) 17 Mar. (76) 5 Apr. (95) 25 Mar. (84) 13 Mar. (73) 1 Apr. (91)	20 0 Sat 4 Wed 3 Tues. 0 Sat 5 Thur. 4 Wed 1 Sun 6 Fri 4 Wed 1 Sun 6 Fri 2 Mon 1 Sun 6 Fri 3 Tues. 2 Mon 6 Fri 3 Tues. 2 Mon	23 136-1889 11-8733 46-5119 9922-1953 136-5106 171-1501 46-8335 261-1487 9957-1566 9832-8399 9867-4795 9743-1629 9957-4781 9902-1178 206-4330 82-1164 116-7560 9902-4394 9868-1228 9902-7624	24 492-6804 339-9153 275-8988 123-1335 6-6600 942-6435 789-8783 673-4047 573-0967 420-3314 356-3149 203-5498 87-0761 23-0597 906-5861 753-8210 689-8044 537-0392 384-2741 320-2575	25 250-7517 219-9268 271-2365 240-4126 212-3266 263-6363 232-8125 204-8264 253-0983 222-4744 273-7841 242-9603 214-8742 266-1840 238-0978 207-2730 258-5837 227-7599 196-9360 248-2457	1 4972 4973 4974 4975 4976 4977 4978 4979 4980 4981 4982 4983 4984 4985 4986 4987 4988 4989 4990 4991
11 Apr. (101)	6 Fri	22 15	0	21 Mar. (80)	6 Fri	9778-4458	167-4924	217-4219	4992
12 Apr. (102)	1 Sun	4 27	30	9 Apr. (99)	5 Thur.	9813-0854	103-4759	268-7316	4993
11 Apr. (102) 11 Apr. (101)		16 52		29 Mar. (89) 19 Mar. (78)	3 Tues. 1 Sun	27-4007	987-0023 970-5287	240-6455 212-5595	4994
11 Apr. (101)	THE PARTY OF THE P	23 5		7 Apr. (97)	0 Sat	276-3556	806-5123	263-8692	4096
12 Apr. (102)	6 Fri	5 17	30	27 Mar. (86)	4 Wed.	152-0390	653:7471	233-0454	4997
11 Apr. (102)		11 30		15 Mar. (75)	1 Sun. ,	27-7223	500-9718	202-2215	4998
11 Apr. (101)	A CONTRACTOR OF THE PARTY OF TH	17 42		3 Apr. (93)	0 Sat 4 Wed	62-3620 9938-0453	436-9653 284-2062	253-5311 222-7073	5000
11 Apr. (101) 12 Apr. (102)		6 7		23 Mar. (82, 11 Apr. (101)	3 Tues.	9971-6850	220-1837	274-0170	5001
12 Apr. (102)	A CONTRACTOR OF THE PARTY OF TH		0 0	31 Mar. (90)	0 Sat	9848-3683	67-4185	243-1932	

TABLE LXII.

NAMES OF MONTHS AND NAKSHATRAS.

(Corresponding to Table II, Part II, "Indian Calendar.)"

	LUNAR MON	THS.		SOLAB MONTHS.								
No.	Usual name.	Tamil name.	No.	Sign name.	Bengal name.	Tamil name.	Malayālam name.	Orissa name.				
1	2	3	4	5	6	7	8	9				
1 2 3 4 5 6 7 8 9 10 11 12	Chaitra . Vaišākha . Jyēshtha . Āshādha . Srāvaņa . Bhādrapada . Āsvina . Kārttika . Mārgašira . Pausha . Māgha . Phālguna .	Paggu . Bēša . Kārteln . Āti . Sōna . Nirņāla . Bontelu . Jārde . Perārde . Perārde . Pantelu . Māyi . Suggi .	1 2 3 4 5 6 7 8 9 10 11 12	Mèsha . Vrishabha Mithuna . Karka . Simha . Kanyā . Tulā . Vrišchika . Dhanus . Makara . Kumbha . Mina	Vaišākha Jyēshtha Āshādha Srāvaņa Bhādrapada Āšvina Kārttika Mārgasira Pausha Māgha Phālguna Chaltra	Chittirai Vaikāši Āni Ādi Āvani Purattādi Āippaši Kārttīgai Mārgari Tai Māsi Panguni	Mēdam Edavam Midunam Karkadagam Chingam Kanni Tulām Vrišchikam Dhanu Makaram Kumbham Minam	Baisak. Joisthö, Assar. Sawun. Bhādro. Assin. Kārttik. Aghran. Paus. Māgha. Falgun. Choitro.				

² or Vaiyāši.

NAKSHATRAS.1

No.	Name.	Tamil name.	Deity,	No.	Name.	Tamil name.	Deity.
1	Aśvini .	Asuvati	Aśvin.	15	Svāti	8ōdi	Vāyu.
9	Bharani .	Bharani	Yama.	16	Viśakhā .	Višākam .	Indragni.
3	Krittika .	Kiruttigai .	Agni.	17	Anurādhā .	Anusham, or Anilum.	Mitra.
4	Rohini .	Robini	Prajapati.	18	Jyështhä .	Kēttai .	Indra.
5	Mrigasira .	Mirugusīram .	Soma.	19	Mūla .	Mülam .	Nirriti.
6	ērābrā .	Ārndra, or Tiruvādirai.	Rudra.	20	Purva Ashā- dhā-	Pürādam .	Apah.
7	Punarvasu .	Ръпагрйзат .	Aditi.	21	Uttara Ashā- dhā.	Uttiradam .	Visvadevah.
8	Pushya .	Pūsam	Brihaspati.	22	Abhijit Sravana .	Tiruvõnam .	Brahma. Vishnu.
9	Āslēshū .	Ayilyam	Sarpāh.	23	Dhanishtha or Sravish-	Avittam .	Vasavab.
10	Maghā .	Magham	Pitarah.	1	thi.		
11	Parva-Phai- gual	Püram	Bhāga.	24	Satabhishaj or Satatārakā.	Sadayam .	Varuņa,
12	Uttarn Phal-	Uttiram	Aryaman.	25	Pürva Bhadra- padā.	Pürattādi .	Aja Ekapād.
13	Hasta -	Hastam or At-	Savitri.	26	Uttara Bha- drapada,	Uttirațțădi .	Ahi Budhnya.
14	Chitra	Chittirai	Tvashtri.	27	Revati .	Rëvati .	Püshan.

¹ Tamil names and those of Deities are borrowed from Dewan Bahadur L. D. Swamikamu Pillai's "Indian Chronology."

^{*} or Purattäsi.

or Arppisi, or Appisi.

TABLE LXIII A.

(Corresponding to Table III, Part I, "Indian Calendar.")

COLLECTIVE DUBATION OF MEAN LUNAR MONTHS.

Serial number.	Name of month.	Collective DURATION FROM BEGINNING OF YEAR TO END OF EACH MEGR LUNAR MONTH.		
		Exactly in Tithis.	In civi	days.
1	2	3	3a	36
1	Chaitra	30	30	29-53
2	Vaišākha	60	59	59-06
3	Jyështha	90	89	88-59
4	Āshādha	120	118	118-12
5	Śrāvaņa	150	148	147-65
6	Bhādrapada	180	177 *	177-18
7	Ăśvina	210	207	206-71
8	Kärttika	240	236	236-24
9	Mārgašira	270	266	265-77
10	Pausha	300	295	295-30
11	Māgha	330	325	324-83
12	Phālguna	360	354	354-36
	In intercalary years.	390	384	383-89

TABLE

DURATION AND COLLECTIVE DURATION OF TRUE SOLAR MONTHS, WITH INCREASE

The values are those

"W. D."-Week-day. "a" in 10,000ths

(This Table supersedes Table XVIII A "Indian

Luni-solar month ending at the second of the two solar	At the true solar	of a,	b, c fro	om te	ue M	days, i lesha s	ours, etc., a mkranti to	each true sa	mkranti.
samkrantis with which it is connected.	samkranti.	D.	W-D.	Н.	M.	S.	a	ъ	c
1	2			3			4	5	6
1. Chuitra	Mina S. (of previous year).							3	
(Mësha samkr.	.0	(0)	0	0	0	0	0	0
2. Vaišākha .	(Vrishabha samkr .	30	(2)	22	11	6-99	471-9831	122-2961	84-6643
3. Jyeshtha {	(Mithuna samkr	62	(6)	7	47	43-05	1105-1653	261-8682	170-6319
4. Ashādha	Karka samkr.	93	(2)	99	22	0.37	1808-3520	408-9426	257-165
5. Sravana	(Simha samkr.	125	(6)	9	34	40-40	2464-1251	550-9358	343-315
6. Bhādrapada .	Kanya samkr.	75300	(2)	10	24	24-88	2973-4105	677-2297	428-281
7 Aśvina {	C Tulå samkr.	186		21	21	37-82	3286-9182	782-5419	511-664
8. Kärttika	3	2000	OLD THE	200	-	-	E	eres naciones	centra state
	(Vrišchika samkr	216	(6)	19	2	43-34	3413:2087	867-7898	593-534
9. Margsáirsha · {	(Dhanus samkr	246	(1)	7	15	59-08	3405-9677	938-7268	674-324
10. Pausha	Makara samkr	275	(2)	15	41	4-81	3345-0707	3-9135	754-680
11. Māgha · · }	Kumbha samkr.	305	(4)	2	39	12-57	3320-1612	72-9570	835-327
12. Phälguna	Mina samkr.	334	60.00	22	4	5-29	3414-4196	154-7719	916-937
1. Chaitra (of fol- loacing year)	Měsha samkr. (of following year)	10000	Acres	6	12	30-0	3688-2315	255-8299	1000-0

NOTE.

Exact value of " c " and of " equation c " at the several true samkräntis in each year.

Samkranti,	c.	Eqn. c.
1. Mēsha samkr. 2. Vrishabha samkr. 3. Mithuna samkr. 4. Karka samkr. 5. Simha samkr. 6. Kanyā samkr. 7. Tulā samkr. 8. Vrišchika samkr. 9. Dhanus samkr. 10. Makara samkr. 11. Kumbho samkr. 12. Mīna samkr.	277-4558 302-1201 448-0877 534-6212 620-7715 705-7375 789-1206 870-9902 951-7801 32-1362 112-7833 194-3937	0-9119 14:2168 40-5649 72:5193 100-7366 117-0628 117-5601 102-9215 77-4872 47-7147 20-8518 3-6236

LXIII B.

of a,b,c, at each sankränti by the First Arya-Siddhänta.

fixed by M. de Ries.

of circle; "b" and "c" in 1,000ths.

Chronography,"p. 132) and "Indian Calendar," Table III, Part II.

At true solar sam-	Length of	month I	receung e	each true samkra	i and increase of a, nti.	AT THE SECOND PROPERTY.
kranti.	D. W-D	н. м	t. 8.	a.	b, .	c.
7		8		9	10	11
				TOWNS OF THE PARTY OF		19 8
Měsha samkr.	0.0	0 0	0	0	D	0
Vrishabha sainkr	30 (2)	22 11	6-99	471-9831	122-296	84 6643
Mithuna samkr	31 (3)	9 36	36-06	633-1822	139-5721	85-9676
Karka samkr.	31 (3)	14 34	17-32	703-1867	147-0744	86-5335
Simha samkr.	31 (3)	11 12	40-02	655-7731	141-9932	86-1503
Kanya samkr.	31 (3)	0 49	44-48	509-2854	126-2939	84-9660
Tulā samkr.	30 (2)	10 57	12-94	313-5077	105-3122	83-3831
Vrischika samkr.	29 (1)	21 41	5-52	126-2905	85-2479	81-8696
Dhanus samkr.	29 (1)	12 13	15-74	9992-7590	70-9370	30-7899
Makara samkr.	29 (1)	8 20	5-73	9939-1030	65-1867	80-3561
Kumbha samkr	29 (1)	10 58	7-76	9975-0905	69-0435	80-6471
Mina samkr.	29 (1)	19 2	52-72	94-2584	81-8149	81-6104
Mösha samkr. (of follow- ing year).	30 (2)	8	8 24-71	273-8119	101-0580	83-0821

TABLE LXIV.

Increase of a, b, c in days of 24 hours each by the First Arya Siddhanta with Lalla's bija.

"a" in 10,000ths; "b" and "c" in 1,000ths of circle.

This Table corresponds to Table IV, "Indian Calendar."

Increase in	a.	ь.	6-
One day	338-631873982	36-291623738	2-737785720
One year of 305 days	3600-634003430	246-442664370	999-291787800
One year of 366 days	3939-265877412	282-734288108	2-029573520
One century of 36,525 days	8529-197184659	551-557045243	997-623429986
One century of 36,526 days	8867-829058641	587-848668981	0.361215706

DAYS OF 24 HOURS EACH.

No.	Week- day.	a	b.	c.	No.	day	a.	ь.	c.
1	2	3	4	5	1	2	3	4	5
1			00 0010	2-7378	31	3	497-5881	125-0403	84-8714
1	1	338-6319	36-2916	5-4756	32	4	836-2200	161-3320	87-6091
2	2	677-2637	72-5832	8-2134	33	5	1174-8518	197-6236	90-3469
3	3	1015-8956	108-8749		34	6	1513-4837	233-9152	93-0847
4	4	1354-5275	145-1665	10-9511	35	0	1852-1156	270-2068	95-8225
5	5	1693-1594	181-4581	13-6889	30		1002-1100	C 5000 C 4000	2075.012
100	6	2031-7912	217-7497	16-4267	36	1.1	2190-7475	306-4985	98-5603
6 7	0	2370-4231	254-0414	19-1645	37	2	2529-3793	342-7901	101-2981
2		2709-0550	290-3330	21-9023	38	3	2868-0112	379-0817	104-0359
8	1 2	3047-6869	326-6246	24-6401	39	4	3206-6431	415.3733	106-7736
9	3	3386-3187	362-9162	27-3779	40	5	3545-2750	451-6649	109-5114
-	240	6610 0000		30,4444	- 24	6	3883-9068	487-9566	112-2493
11	4	3724-9500	399-2079	30-1156	41		4222-5387	524-2482	114-9870
12	5	4063-5825	435-4995	32-8534	42	0	4561-1706	560-5398	117-7248
13	6	4402-2144	471-7911	35-5912	43	1 2	4899-8025	596-8314	120-4626
14	0	4740-8462	508-0827	38-3290	44		5238-4343	633-1231	123-200
15	1	5079-4781	544-3744	41-0668	45	3	0200-1010	000 1201	
100		5418-1100	580-6660	43-8046	46	4	5577-0662	669-4147	125-938
16	2	5756-7419	616-9576	46-5424	47	5	5915-6981	705-7063	128-675
17	3	6095-3737	653-2492	49-2801	48	6	6254-3300	741-9979	131-413
18	4	1,000,000,000,000,000	689-5409	52-0179	49	0	6592-9618	778-2896	134-151
19	5	6434-0056 6772-6375	725-8325	54-7557	50	650	6931-5937	814-5812	136-889
770	160	0372077777		57-4935	51	9	7270-2256	850-8728	139-627
21	0	7111-2694	762-1241	60-2313	52		7608-8574	887-1644	142-364
22		7449-9012	798-4157		53		7947-4893	923-4561	145-102
23		7788-5331	834-7073	62-9691	54	2	8286-1212	959-7477	147-840
24		8127-1650	870-9990	65-7069	55	100	8624-7531	996-0393	150-578
25	4	8465-7968	907-2906	68*1446	99		9024-1001	000 0000	
26	5	8804-4287	943-5822	71-1824	56		8963-3849	32-3300	153-316
27		9143-0606	979-8738	73-9202	57		9302-0168	68-6226	156-053
28	4.7	9481-6925	16-1655	76-6580	58		9640-6487	104-9142	158-791
20	0.75	9820-3243	52-4571	79-3958	59		9979-2806	141-2058	161-529
30	1.77	158-9562	88-7487	82-1336	60	44	317-9124	177-4974	164-267

TABLE LXIV-Contd.

DAYS-Contd.

ia.	Week- day.	a.	ъ.	C+	No.	Week- day.	a.	b.	e.
1	2	3	4	5	1	2	3	4	5
		250.540	213-7890	167-0049	111	- 6	7588-1380	28:3702	303-894
61	0	656-5443	250-0807	169-7427	112	0	7926-7699	64-6619	306-632
62	6	995 1762		172 4805	113	1	8265-4018	100-9535	309-369
63	0	1333-8081	286-3723		114	2	8604-0336	137-2451	312-107
65	1 2	1672-4399 2011-0718	322-6639 358-9555	175-2183 177-9561	115	3	8942 6655	173-5367	314-845
		2349-7037	395-2472	180-6939	116	4	9281-2974	209-8284	317-583
66.	3	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	431-5388	183-4316	117	5	9619-9293	246-1200	320-320
67	4	2688-3356	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	186:1694	118	6	9958-5611	282 4116	323-058
68	5	3026-9674	467-8304	188-9072	119	0	297-1930	318-7032	325-796
69 70	6 0	3365-5993 3704-2312	504-1220 540-4137	191 6450	120	1	635-8249	354-9948	328-534
950	1000	Constitute	Sections.	194-3828	121	2	974-4568	391-2865	331-272
71	1.	4042-8631	576-7053		122	3	1313-0886	427-5781	334-009
72	2	4381 4949	612-9969	197-1206	123	4	1651-7205	463-8697	336-747
73	3	4720-1268	649-2885	199-8584			1990-3524	500-1613	339-485
74	4	5058-7587	685-5801	202-5961	124	5		536-4530	342-223
75	- 5	5397-3905	721-8718	205-3339	125	6	2328-9842	2000015	
76	6	5736-0224	758 1634	208-0717	126	0	2667-6161	572-7446	344-961
	0.00	6074-6543	794-4550	210-8095	127	1	3006-2480	609-0362	347-698
77	0	6413-2862	830-7467	213-5473	128	2	3344-8790	645-3278	350-436
78	1	THE R. P. LEWIS CO., LANSING, MICH. 49, 100, 100, 100, 100, 100, 100, 100, 10	867-0383	216-2851	129	3	3683-5117	681-6195	353-174
79 80	3	6751-9180 7090-5499	903-3299	219-0229	130	4	4022-1436	717-9111	355-915
		7400,1010	939-6215	221-7606	131	5	4360-7755	754-2027	358-649
81	4	7429 1818	975-9131	224 4984	132	6	4699-4074	790 4943	361:387
82	ō	7767-8137		227-2362	133	0	5038-0392	826-7860	364-127
83	6	8106-4455	12-2048	229-9740	134	1	5376-6711	863-0776	366-863
84	0	8445-0774 8783-7093	48·4964 84·7880	232-7118	135	2	5715-3030	899:3692	369-601
			121-0796	235-4496	136	3	6053-9349	935-6608	372:338
86	2	9122-3412		238 1874	137	4	6392-5667	971-9525	375-07
87	3	9460-9730	157:3713	240-9251	138	5	6731-1986	8-2441	377-81
88	4	9799-6049	193-6629	T 7 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1	139	6	7069-8305	44-55-7	380-553
99	5	138-2367 476-8687	229-9545 266-2461	243-6629 246-4007	140	0	7408-4624	80 8273	383-29
100	1000		A 100 A 100	249-1385	141	1	7747-0942	117-1189	386-02
91	0	815-5005	302-5378	75.75 75.75 75.75 75.75	142		8085-7261	153-4106	388-76
92	1	1154 1324	338-8294	251-8763	143	3	8424-3580	189-7022	391-50
93	2	1492-7643	375-1210	254-6141	144	4	8762-9899	225-9938	394-24
94 95	3 4	1831·3962 2170·0280	411-4126	257-3519 260-0896	145	5	9101-6217	262-2854	396-97
	E	575500000000000000000000000000000000000	A CONTRACTOR	262-8274	146	6	9440-2536	298-5771	399-71
96	5	2508-6599	483-9959	265-5652	147	0	9778-8855	334-8686	402-45
97	6	2847-2918	520.2875		148	1	117-5173	371-1603	405-19
98	0	3185-9237	556-5791	268:3030	149	2	456-1492	407-4519	407-93
99	2	3524-5555 3863-1874	592·8708 629·1624	271-0408 273-7786	150	3	794-7811	443-7436	410-66
	100	-	2000 September 1		151	4	1133 4130	480-0352	413-40
10	3	4201-8193	665-4540	276-5164	152	5	1472-0448	516-3268	416-14
02	4	4540:4511	701 7456	279-2541		6	1810-6767	552-6184	418-88
03	5	4879-0830	738-0373	281-0915	153	0	2149-3086	588-9101	421-61
20	6	5217-7149 5556-3468	774 3289 810 6205	284-7297 287-4675	154	1	2487-9405	625-2017	424-35
05		Company and the same of			529/07	210	2826-5723	661-4933	427-09
06	1	5894-9786	846 9121	290.2053	156	2	D 70 77 T - 00 1 70 (D D)	697-7849	429 83
07	. 9	6233-6105	883-2037	292-9431	157	3	3165-2042	734-0766	432-57
08	3	6572-2424	919-4954	295-6809	158	4	3503-8361	1,750	435-3
09	4	6910 8743	955-7870	298-4186	159	5	3842-4686	770 3652	438-0
10	- 5	7249-5061	992 0786	301-1564	160	6	4181-0998	806-6558	230 U

TABLE LXIV-Contd.

DAYS-Contd.

No.	Week- day.	*.	b.	с.	No.	Week- day.	a.	ь.	c.
.1	2	3	4	5	1	2	3	4	5
161	0	4519-7317	842-9514	440-7835	211	1	1451-3254	657-5326	577-6728
162	ĭ	4858-3636	879-2430	443-5213	212	2	1789-9572	693-8242	580-4106
163	2	5196-9955	915-5347	446-2591	213	3	2128-5892	729-1159	583-1484
164		CONTRACTOR OF THE PARTY OF THE			214	4	2467-2210	766-4075	585-8861
165	3 4	5535-6273 5874-2592	951-8263 988-1179	448-9969 451-7346	215	5	2805-8529	802-6991	588-6239
166	5	6212-8911	24-4095	454-4724	216	6	3144-4848	838-9907	591-3617
167	6	6551-5230	60-7012	457-2102	217	0	3483-1167	875-2824	594-0995
168	0	6890-1548	96-9928	459-9480	218	1	3821-7485	911-5740	596-8373
169	1	7228-7867	133-2844	462-6858	219	2	4160-3804	947-8656	599-5751
170	2	7567-4186	169-5760	465-4236	220	3	4499-0123	984-1572	602-3129
171	3	7906-0505	205-8677	468-1613	221	4	4837-6442	20-4488	605-0506
172	4	8244-6823	242-1593	470-8991	222	5	5176-2760	56-7405	607-7884
173	5	8583-3142	278-4500	473-6369	223	6	5514-9079	93-0321	610-5262
174	6	8921-9461	314-7425	476-3747	224	0	5853-5398	129-3237	613-2640
175	0	9260-5779	351-0342	479-1125	225	1	6192-1716	165-6153	616-0018
176	1	9599-2098	387-3258	481-8503	226	2	6530-8035	201-9070	618-7396
177	2	9937-8417	423-6174	484-5881	227	3	6869-4354	238-1986	621-4774
178	3	276-4736	459-9090	487-3259	228	4	7208-0673	274-4902	624-2151
179	4	615-1054	496-2006	490-0636	229	5	7546-6991	310-7818	626-9529
180	5	953-7373	532-4923	492-8014	230	6	7885-3310	347-0735	629-6007
181		1292-3692	568-7839	495-5392	231	0	8223-9629	383-3651	632-4280
182		1631-0011	605-0755	498-2770	232	- 1	8562-5948	419-6567	635-1663
183	1	1969-6329	641-3671	501-0148	233	2	8901-2266	455-9483	637-904
184		2308-2648	677-6588	503-7526	234	3	9239-8585	492-2400	640-6410
185	3	2646-8967	713-9504	506-4904	235	4	9578-4904	528-5316	643-3796
186		2985-5286	750-2420	500-2281	236	. 5	9917-1223	564-8232	646-1174
187		3324-1604	786 5336	511-9659	237	6	255-7541	601-1148	648-8552
188	8 6	3662-7923	822-8253	514-7037	238	0	594-3860	637-4064	651-5930
189	0 0	4001-4242	858-1160	517-4415	239	113	933-0179	673-6981	654-330
190	1	4340-0561	895-4085	520-1793	240	2	1271-6498	709-9897	657-068
193			931-7001	522-9171	241	3	1610-2816	746-2813	659-806
195	2 3	5017-3198	967-9918	525-6549	242		1948-9135	782-5729	662-544
193	3 4	5355-9517	4-2834	528-3926	243	5	2287-5454	818-8646	665-281
19			40-5750	531-1304	244	6	2626-1773	855-1562	668-019
19	5 6	6033-2154	76-8666	533-8682	245	0	2964-8091	891-4478	670-757
19	6 0	6371-8473	113-1583	536-6060	246	1	3303-4410	927-7394	673-495
19	The state of the s		149-4499	539-3438	247		3642-0729	964-0311	676-233
19			185-7415	542-0816	248		3980-7047	0.3227	678-970
19			222-0331	544-8194	249		4319-3366	36-6143	681-708
20		7726-3748	258-3247	547-5571	250	771	4657-9685	72-9059	684-446
20	1 8	8065-0067	294-6164	550-2949	251	6		109-1976	687-184
20		8403-6385	330-9080	553-0327	255	2 0		145-4892	689-922
20		8742-2704	367-1996	555-7705				181-7808	602-659
20		9080-9023	403-4912	558-5083				218-0724	695-397
20		9419-5342	439-7829	561-2461				254-3641	698-132
20)6	9758-1660	476-0745	563-9839	25	6 4	6689-7597	290-6557	700-87
20		4 96-7979	512-3661	566-7216				326-9473	703-610
20		335-4298	548-6577	569-4594				363-2389	706-34
20		6 774-0617	584-9494	572-1972				399-5305	709-08
	0	1112-6935		200000000000000000000000000000000000000					711-82
21	0	9 1112-6935	621-2410	574-9350				435-8222	

TABLE LXIV-Contd.

DAYS-Contd.

io.	Week-	a.	ь.	6	No.	Week- day.	a	b.	c.
1	2	3	4	5	1	2	3	4	5
61	2	8382-9191	472-1138	714-5621	311	3	5314-5128	286-6950	851-451
62	3	8721-5510	508-4054	717-2999	312	4	5653-1446	322-9866	854-189
63	4	9060-1829	544-6970	720-0376	313	5	5991-7766	359-2782	856-926
264	5			722-7754	314	6	6330-4084	395-5699	859-664
265	6	9398-8147 9737-4466	580-9887 617-2803	725-5132	315	0	6669-0403	431-8615	862-402
66	0	76-0785	653-5719	728-2510	316	1	7007-6722	468-1531	865-146
67	1	414-7104	689-8635	730-9888	317	2	7346-3041	504-4447	867-878
68			726-1552	733-7266	318	3	7684-9359	540-7363	
	2	753-3422	- Control of the Cont	The second second second second					870-615
69	3	1091-9741	762-4468	736-4644	319	4	8023-5678	577-0280	873-353
270	4	1430-6060	798-7384	739-2021	320	5	8362-1997	613-3196	876-091
271	5	1769-2378	835-0300	741-9399	321	. 6	8700-8315	649-6112	878-81
272	6	2107-8697	871-3217	744-8777	322	0	9039-4634	685-9028	881-567
273	0	2446-5016	907-6133	747-4155	323	1	9378-0953	722-1945	884-304
274	1	2785-1335	943-9049	750-1533	324	2	9716-7272	758-4861	887-043
75	2	3123-7653	979-1965	752-8911	325	3	55-3590	794-7777	889-780
276	3	3462-3972	16-4882	755-6289	326	4	394-9909	831-0693	892-518
277	4	3801-0291	52-7798	758-3666	327	5	732-6228	367-3610	895-258
278	5	4139-6610	89-0714	761-1044	328	6	1071-2547	903-6526	897-993
279	6	4478-2928	125-3630	763-8422	329	0	1409-8865	939-9442	900-731
80	0	4816-9247		766-5800	330	1	1748-5184	976-2358	903-469
281	1	5155-5566	197-9463	769-3178	331	2	2087-1503	12-5275	906-207
282	2	5494-1885	234-2379	772-0556	332	3	2425-7822	48-8191	908-94
283	3	5832-8203	270-5295	774-7934	333	4	2764-4140	85-1107	911-68
284	4	6171-4522	306-8211	777-5311	334	5	3103-0459	121-4023	914-420
285		6510-0841	343-1128	780-2689	335	6	3441-6778	157-6940	917-15
286	6	6848-7160	379-4044	783-0067	336	0	3780-3097	193-9856	919-896
287		7187-3478	415-6960	785-7445	337	- 1	4118-9415	230-2772	922-63
288		7525-9797	451-9876	788-4823	338	2	4457-5734	266-5688	925-37
289		7864-6116	488-2793	791-2201	339	3	4796-2053	302-8604	928-10
290		8203-2435	524-5709	793-9579	340	4	5134-8372	339-1521	930-84
291	4	8541-8753	560-8625	796-6956	341	5	5473-4690	375-4437	933-58
292		8880-5072	597-1541	799-4334	342	6	5812-1009	411-7353	936-32
293		9219-1391	633-4458	802-1712	343	0	6150-7328	448-0269	939-06
294				804-9090	344	1	6489-3646	484-3186	941-79
$\frac{204}{295}$		9557-7710 9896-4028	669-7374 706-0290	807-6468	345	2	6827-9965	520-6102	944-53
296	2	235-0347	742-3206	810-3846	346	3	7166-6284	556-9018	947 27
297		573-6666	778-6123	813-1224	347	4	7505-2603	593-1934	950-01
298		100000000000000000000000000000000000000	814-9039	815-8601	348	5	7843-8921	629-4851	952-74
		912-2984			349	6	8182-5240	665-7767	955-48
290 300		1250-9303 1589-5622	851-1955 887-4871	818-5979 821-3357	350		8521-1559	702-0683	958-22
301		1000 1041	923-7787	824-0735	351	1	8859-7878	738-3599	960-9€
12000		1928-1941			352		9158-4196	774-6516	963-70
302		2266-8259	960-0704	826-8113			\$ 105.05.00 (Control of the Control	Control of the second	
303		2605-4578	996-3620	829-5491	353		9537-0515	810-9432	966-43
304		2944-0897 3282-72.6	32-6536 68-9452	832-2869 835-0246	354		9875-6834 214-3153	847-2348 883-5264	969-17
1000							552-9471	010-0101	
300	100	3621-3534	105-2369	837-7624	356		891-5790	919-8181 956-1097	974-64
307		3959-9853	141-5285	840-5002	357		NEW TO COUNTY OF THE PARTY OF T		977-38
308		4298-6172	177-8201	843-2380	358		1230-2100	992-4013	980-12
309		4637-2491	214-1117	845-9758	359		1568-8428	28-6929	982-86
310) 2	4975-8809	250-4034	848-7136	360	3	1907-4746	64-9845	985 60

TABLE LXIV-Concld.

DAY .- Concld.

No.	Week- day.	α,	b.	c.	No.	Week- day.	a.	ь.	c.
1	2	а	4	-5	1	2	3	4	5
361	4	2246-1065	101-2762	988-3406	376	5	7325-5846	645-6505	29-4074
362	5	2584-7384	137-5678	991 0784	377	6	7664-2165	681-9421	32-1452
363	6	2923-3703	173-8594	993-8162	378	0	8002-8484	718-2338	34-8830
364	0	3262-0021	210-1510	996-5540	379	1 2	8341-4802	754-5254	37-6208
3ho	1	3600-6340	246-4427	999-2918	380	2	8680-1121	790-8170	40-3586
366	2 3	3939-2659	282-7343	2-0296	381	3	9018-7440	827-1086	43-0964
367	3	4277-8978	319-0259	4-7674	382	5	9357-3759	863-4003	45-8341
368	5	4616-5296	355-3175	7-5051	383	5	9696-0077	899-6919	48-5719
369	5	4955-1615	391-6092	10-2429	384	6	34-6396	935-9835	51-3097
370	6	5293-7934	427-9008	12-9807	385	0	373-2715	972-2751	54-0475
371	0	5632-4252	464-1924	15-7185				-	
372	1	5971-0571	500-4840	18-4563					
273	2	6309-6890	536-7757	21 1941					
371	3	6648-3209	573-0673	23-9319					
375	4	6986-9527	609-3589	26-6696		-			

TABLE LXV.

Increase of $a,\,b,\,c$ by the First Ārya-Siddhānta with Lalla's Bija. Hours, minutes and seconds.

(" a" in 10,000ths of circle; " b" and " c" n 1,000ths.)

This Table corresponds to Table V, "Indian Calendar."

Ir	oreas	e in			a.	b.	c.
One hour . One minute One second	:		* ***	* *5*	14-109661416 0-235161024 0-003919350	1-512150989 0-025202517 0-000420042	0-114074405 0-001901210 0-000031687

Hours.

No.	G.	ь.	c,	No.	a.	b.	c.
1	14-1097	1.5122	0-1141	13	183-4256	19-6580	1-483
2 3	28-2193	3.0243	0.2281	14	197-5353	21-1701	1-597
3	42-3290	4-5365	0.3422	15	211-6449	22-6823	1-711
4	56-4386	6-0486	0-4563	16	225-7546	24-1944	1.825
5	70-5483	7-5608	0.5704	17	239-8642	25-7066	1-9393
6	84-6580	9-0729	0.6844	18	253-9739	27-2187	2-0533
7	98-7676	10-5851	0.7985	19	268-0836	28-7309	2-167
8	112-8773	12-0972	0.0126	20	282-1932	30-2430	2.281
8 9	126-9870	13-6094	1-0267	21	296-3029	31-7552	2-395
10	141-0966	15-1215	1-1407	22	310-4126	33-2673	2-509
11	155-2063	16-6337	1.2548	23	324-5222	34-7795	2-623
12	169-3159	18-1458	1.3689	24	338-6319	36-2916	2-737

MINUTES.

No.	a,	ь.	C.	No.	a.	ъ.	c.	No.	a.	ъ.	c.
1	0-2352	0-0252	0-0019	21	4-9384	0.5293	0-0399	41	9-6416	1-0333	0.0780
2 3	0-4703	0-0504	0.0038	22	5-1735	0.5545	0.0418	42	9-8768	1-0585	0-0799
3	0.7055	0.0756	0.0057	23	5-4087	0.5797	0.0437	43	10-1119	1-0837	0.081
5	0.9406	0-1008	0-0076	24	5-6439	0-6049	0.0456	44	10-3471	1.1089	0.083
	1.1758	0-1260	0-0095	25	5-8790	0-6301	0.0475	45	10-5822	1-1341	0.0856
6	1-4110	0.1512	0-0114	26	6-1142	0-6553	0.0494	46	10-8174	1-1593	0.087
7	1.6461	0-1764	0.0133	27	6-3493	0-6805	0.0513	47	11-0526	1-1845	0.089
8	1.8813	0-2016	0-0152	28	6.5845	0-7057	0.0532	48	11-2877	1.2097	0.091
9	2.1164	0.2268	0.0171	29	6-8197	0-7309	0.0551	49	11-5229	1-2349	0-093
10	2.3516	0.2520	0.0190	30	7-0548	0.7561	0.0570	50	11-7581	1-2601	0-095
11	2.5868	0.2772	0-0209	31	7-2900	0.7813	0.0589	51	11-9932	1.2853	0-0976
12	2.8219	0.3024	0.0228	32	7-5252	0.8065	0.0608	52	12-2284	1-3105	0-098
13	3.0571	0-3276	0-0247	33	7.7603	0.8317	0.0627	53	12-4635	1.3357	0-1008
14	3-2923	0.3528	0.0266	34	7.9955	0.8569	0.0646	54	12-6987	1.3609	0-102
15	3.5274	0.3780	0.0285	35	8-2306	0.8821	0.0665	55	12-9339	1.3861	0-104
16	3.7626	0.4032	0.0304	36	8-4658	0.9073	0.0684	56	13-1690	1-4113	0-106
17	3.9977	0-4284	0.0323	37	8-7010	0.9325	0.0703	57	13-4042	1-4365	0-1084
18	4-2329	0-4536	0.0342	38	8-9361	0.9577	0.0722	58	13-6393	1-4617	0-1100
19	4-4681	0.4788	0.0361	39	9-1713	0.9829	0.0741	59	13-8745	1-4869	0-112
20	4-7032	0-5011	0-0380	40	9-4064	1.0081	0.0780	60	14-1097	1.5122	0-114

TABLE LXV-Contd.

SECONDS.

No.	a.	b.	c.	No.	a.	ь.	C.	No.	a.	ь.	6.
		0.0004	0.0000	21	0.0823	0-0088	0.0007	41	0-1607	0-0172	0-0013
1	0.0039	0-0004	0-0000	22	0-0862	0-0092	0.0007	42	0-1646	0.0176	0.0013
2 3	0.0078	0-0008	6-0001	23	0-0901	0-0097	0.0007	43	0-1685	0.0181	0.0014
3	0-0118	0.0013	0.0001	24	0-0941	0-0101	0.0008	44	0-1725	0.0185	0.0014
4	0.0157	0-0017	0.0001	25	0.0980	0.0105	0-0008	45	0-1764	0.0189	0.0014
5	0-0198	0.0021	0.0002	26	0-1019	0-0109	0.0008	46	0.1803	0-0193	0.0015
8	0-0235	0-0025	0-0002	27	0-1058	0-0113	0.0009	47	0-1842	0.0197	0.0015
7	0.0274	0-0029	0-0002		0-1097	0-0118	0.0009	48	0.1881	0.0202	0.0015
8	0-0314	0.0034	0-0003	28	0-1007	0-0112	0-0009	49	0-1920	0.0206	0.0016
9	0-0353	0-0038	0.0003	29	0-1176	0-0126	0-0010	50	0.1960	0.0210	0.0016
10	0-0392	0-0042	0.0003	30	0-1215	0-0130	0.0010	51	0-1999	0.0214	0-0016
11	0.0431	0.0046	0-0003	31	0-1254	0-0134	0.0010	52	0-2038	0.0218	0.0016
12	0-0470	0-0050	0-0004	32		0-0139	0-0010	53	0.2077	0.0223	0.0017
13	0.0510	0.0055	0.0004	33	0-1293	0.0143	0-0011	54	0.2116	0.0227	0.0017
14	0.0549	0.0059	0-0004	34	0-1333	0.0147	0-0011	55	0-2156	0-0231	0.0017
15	0.0588	0-0063	0.0005	35	0.1372	0.0151	0-0011	56	0.2195	0.0235	0.0018
10	0.0627	0.0067	0.0005	36	0-1411	0-0155	0.0012	57	0.2234	0.0239	0-0018
17	0-0666	0-0071	0.0005	37	0-1450	0-0150	0.0012	58	0-2273	0.0244	0-0018
18	0.0705	0.0076	0-0006	38	0-1489		0-0012	52	0.2312	0.0248	0.0011
19	0.3745	0-0080	0.0006	39	0-1525	0-0164	0-0013	63	0.2352	0.0252	0-0019
20	0.0784	0.0084	0-0006	40	0.1568	0-0168	0.0019	0.	0.2002		

TABLES LXVI, LXVII.

"Equation b" and "equation c" in whole numbers by the First Arya-Siddhanta (corresponding to Tables VI, VII, "Indian Calendar").

Tables LXVI-A and LXVII-A state the values of "equation b" and "equation e" in detail-

TABLE LXVI.

TABLE LXVII.

LUNAR "EQUATION b."

· CV		 -					
Son	AR	190	ULC	ATI	ON	12	27.

Arg.	Eqn.	Arg.	Arg.	Eqn.	Arg.
0	139	500	500	139	1000
10	148	490	510	130	990
20	157	480	520	121	980
30	165	470	530	114	970
40	174	460	540	105	960
50	182	450	550	96	950
60	191	440	560	88	940
70	199	430	570	80	930
80	206	420	580	72	920
90	214	410	590	65	910
100	221	400	600	58	900
110	228	390	610	51	890
120	235	380	620	44 /	880
130	241	370	630	38	870
140	247	360	640	32	860
150	252	350	650	27	850
160	257	340	660	22	840
170	262	330	670	17	830
180	265	320	680	13	820
190	269	310	690	10	810
200	272	300	700	7	800
210	274	290	710	4	790
220	276	280	720	2	780
230	277	270	730	1	770
240	278	260	740	0	760
250	279	250	750	0	750

Arg.	Eqn.	Arg.	Arg.	Eqn.	Arg.
0	60	500	500	69	1000
10	56	490	510	63	990
20	52	480	520	67	980
30	49	470	530	71	970
40	45	460	540	75	960
50	41	450	550	78	956
60	38	440	560	81	940
70	34	430	570	85	930
80	31	420	580	88	920
90	28	410	590	92	910
100	25	400	600	95	900
110	21	390	610	98	890
120	18	380	620	101	886
130	16	370	630	103	870
140	14	360	640	106	860
150	11	350	650	108	850
160	9	340	660	110	840
170	7	330	670	112	830
180	6	320	680	113	820
190	4	310	690	115	810
200	3	300	700	116	800
210	2	290	710	117	790
220	1	280	720	118	780
230	1	270	730	119	770
240	0	260	740	119	760
250	0	250	750	119	750

Diff.			I	ast figu	ire	of ar	gument.			
in equa-	9	8	7	6		5	4	3	2	1
tion.				Add	or	subti	act.			T
9 8 7	8	7	6	5	4	or t	4	3	2	1
7	8 7 6	7 6 6	6 6 5	4	3	or 4	3 3	3 2	2 2	1
6	5	5	4	4			2	2	1)
6 5 4	4 or 5	5 4 3	3 or 4	3 2	2	or 5		l or 2	1	0 or
3	, 3	2	2	2	1	or S	1	1	1	-
3 2 1	3 2	2 2 1	1 1	1	0	or l	1 0	1 0	0 0	0

TABLE LXVI A.

(A) Moon's equation of the centre (" Equation b,") by the First Ārya-Siddhānta from ('s mean anomaly (" Arg. b.") 0—500 (0°—180°).

Cols. 3, 4.—Equation and difference stand for either of the mean anom. values in cols. 2a, 2 .

For the 24 base-equations see Table LXX.

"Arg. b" is ('s mean anom, in 1,000ths of circle,

Col. 3 .- The equation is & 's greatest equation plus the actual equation, in 10,000ths of circle.

of sine.	Arg. b.	Equation b.	Diff.	Arg. b.	Serial No. of sine.	Arg. b.	Equation b.	Diff.	Arg. b.
1	2a	3	4	25	1	2a	3	4	25
0	0.0	139-4275	2	500-0	12	125-0	237-9056	1	375-0
	2.083	141-2505		497-916	175	127-083	239-1537		372-916
	4-16	143-0734	> 1-8229	495-83		129-16	240-4019	> 1.2482	370-83
	6.25	144-8963	100	493-75		131-25	241-6501	10000000	368-75
	8.3	146-7192		491-6		133-3	242-8983		366-6
1	10-410	148-5421	1	489-583	13	135-416	244-1464	1	364-583
	12.5	150-3569		487.5		137-5	245-3102		362-5
	14-583	152-1718	> 1.8148	485-416		139-583	246-4739	≥ 1·1637	360-416
	16-6	153-9866	1	483-3		141-6	247-6376	1	358-3
-	18-75	155-8014	2	481-25		143-75	248-8014	1	356-25
2	20-83	157-6162		479-16	14	145-83	249-9651		354-16
h 2	22-916	159-4148	1 9600	477-083		147-916	251-0312	100000	352-083
	25-0	161-2134	1.7986	475-0 472-916		150-0	252-0973	≥ 1·0661	350-0
	27-083 29-16	163-0120		470.83		152-083 154-16	253-1634 254-2294	1 1 1 1	347-91
3	31.25	164-8106 166-6093	K	468-75	15	156-25	255-2955	3	345-83 343-75
9	33-3	168-3836	1 - 1	466-6	3.0	158-3	256-2640		341-6
	35-416	170-1579	- 1-7743	464-583		160-416	257-2324	0.9684	339-58
	37.5	171-9322	1	462-5	1	162-5	258-2008	6 0000	337-5
	29-583	173-7065	120 1	460-416		164-583	259-1692		335-41
4	41-6	175-4808	1	458-3	16	166-6	260-1376	3	333-3
	43-75	177-2227		456-25	1600	168-75	261-0003		331-25
	45-83	178-9649	> 1.7419	454-16		170-83	261-8629	> 0.8626	329-16
	47-916	180-7065	A Parameter	452-083		172-916	262-7255	S. S. Harridan	327-08
	50-0	182-4484	U	450.0	1000	175-0	263-5882	J.	325-0
5	52-083	184-1903	n	447:916	17	177-083	264-4508	1	322-91
	54-16	185-8917	The same of	445-83		179-16	265-2076	- Land	320-83
	56-25	187-5931	> 1-7014	443-75		181-25	265-9645	> 0.7568	318-75
	58-3	189-2944		441.6		183-3	266-7213		316-6
	60-416	190-9958		439-583	10	185-416	267-4781	7	314-58
6	62-5 64-583	192-6972		437-5 435-416	18	187·5 189·583	268-2350 268-8779		312-5
	66-6	194-3581 196-0190	1-6609	433-3		191-6	269-5208	0-6429	310-41 308-3
	68-75	197-6799		431-25	1	193-75	270-1637	A 0.0070	306-25
	70.83	199-3407		429-16		195-83	270-8006		304-16
7	72-916	201-0016		427-083	19	197-918	271-4495	K	302-08
	75-0	202-6139		425-0	1	200-0	271-9785		300-0
	77-083	204-2262	1-6123	422-916		202-083	272-5074	> 0-5290	297-91
	79-16	205-8384		420-83		204-6	273-0364		295-83
	81-25	207-4507		418-75	The same	206-25	273-5654		293-75
- 8	83-3	200-0630		416-6	20	208-3	274-0944	5	291-6
	85-410	210-6104		414-583		210-410	274-5094	THE RESERVE	289-58
	87.5	212-1579		412-5		212-5	274-9244	> 0.4150	287-5
	89-583	213-7053		410-416		214-583	275-3395		285-41
100	91-6	215-2528		408-3	01	216-6	275-7545	U	283-3
191	93-75	216-8002		406-25	21	218-75	276-1695	1	281-25
	95-83 97-916	218-2829 219-7658		404-16		220-83 222-916	276-4707	0.001-	270-16
	100-0	221-2481		400-0		225-0	276-7718 277-0729	> 0-3011	277-08
	102-083			397-916		227-083	277-3740		275-0
10	104-16	224-2134		395-83	22	229-16	277-6751	K	272-91 270-83
10	106-25	225-6231		393-75	1	231-25	277-8741		268-75
	108-3	927-0329		391-6		233-3	278-0332	0-1790	266-6
	110-416			389-583		235-416	278-2122		264-58
	112-5	229-8525		387-5		237-5	278-3912		282-5
11	114-583			385-416	23	239-583	278-5703	3	260-41
	116-6	232-5907		383-3	1	241-6	278-6272		258-3
	118-75	233-9194		381-25		243-75	278-6842	> 0.0570	256-25
	120-83	235-2483	2	379-16		245-83	278-7412		254 16
	122-016	236-5769		377-083		247-916	278-7981		252-08
		1	D.		1 24	250-0	278-8551	Carrier Control	250-0

TABLE LXV: A-Contd.

(B) Moon's equation of the centre (" Equation b.") by the Fiest Åeva-Siddhänta from ('s mean anomaly (" Arg. b.") 500-100) $(180^\circ-360^\circ)$.

Col. 3.—The equation is ('s greatest equation minus the actual equation, in 10,000ths of circle

of sine.	Arg. b.	Equation b.	Diff.	Arg. b.	Serial No. of sine.	Arg. b.	Equation b.	Diff.	Arg. b
1	2a	3	4	25	1	2/4	3	4	25
0	500-0	139-4275	1	1000-0	12	625-0	40-9495)	875 0
	502-083	137-6046	No. of Concession,	997-916	200	627-083	39.7014		872-91
	504-16	135-7817	▶ 1.8229	995-83		629-16	38-4532	1.2482	870 83
	506-25	133-9588		993-75		631-25	37-2050		868-75
	508-3	132-1359)	991-6		633-3	35-9568		866-6
1	510-416	130-3130)	989-583	13	635-416	34:7087	1	864.58
-	512-5	128-4982	-	987-5	0.000	637-5	33-5449		862-5
	514-583	126-6833	> 1.8148	985-416		639-583	32-3812	► 1·1637	860-41
	516-6	124-8685		983-3		641-6	31-2175	Contract No.	858-3
	518-75	123-0537	}	981-25		643-75	30-0537		856-25
2	- 520-83	121-2389	1	979-16	14	645-83	28-8900		854-16
	522-916	119-4403	* ***	977-083		647-916	27-8239		852-08
	525-0	117-6417	1-7986	975-0		650-0	26-7578	≥ 1.0661	850-0
	527-083	115-8431		972-916		652-083	25-6917		847-91
	529-16	114-0444	2	970-83		654-16	24-6257		845-83
3	531-25 533-3	112-2458		968-75	15	656-25	23-5596		843-75
		110-4715	1.0740	966-6	1	658-3	22-5911	N SAMESTER III	841-6
	535-416	108-6972	1-7743	964-583		660-416	21-6227	0.9684	839-583
	537-5	106-9229		962-5		662-5	20-6543		837-5
4	539-583 541-6	105-1486	(960-416 958-3	10	664-583	19-6859		835-416
100	543-75	101-6324		956-25	16	665-6	18-7175		833-3
	545-83	99-8905	1-7419	954-16		668-75	17-3548	200000	831-25
	547-916	98-1486	1.1419	952-083		670-83	16-9922	0-8626	829-16
	550-0	96-4067		950-0		672-916	16-1296	5	827-082
5	552-083	94-6648		947-916	17	675-0 677-083	15-2669		825-0
*	554-16	92-9634		945-83	2.7	679-16	13-6475		822-910
	556-25	91-2620	1-7014	943-75		681-25		0.0000	820-83
	558-3	89-5607	127014	941-6		683-3	12-8006 12-1338	> 0.7568	818-75
	500-416	87-8593		939-583		685-416	11-3770		816-6
6	562-5	86-1579		937-5	18	687-5	10-6201	0	814-583 812-5
	564-583	84-4970		935-416	10	689-583	9-9772		810-416
- 2	566-6	82-8361	1-6609	933-3		691-6	9-3343	0-6429	808-3
	568-75	81-1752		931-25		693-75	8-6914	O O Garage	806-25
	570-83	79-5144		929-16		695-83	8-0485		804-16
7	572-916	77-8535		927-083	19	697-916	7-1056		802-083
	575-0	76-2412	The second	925-0		700-0	6-8766		800-0
660	577-083	74-6289	1-6123	922-916		702-083	6-3477	0.5290	797-910
	579-16	73.0167		920-83		704-6	5-8187		795-83
	581-25	71:4044		918:75		706-25	5-2897		793-75
8	583-3	69-7921		916-6	20	708-3	4-7607		791-6
	585-416	68-2447	200	914-583	1000	710-416	4:3457		789-583
	587-5	66-6972	1.5475	912-5		712-5	3-9307	0-4150	787-5
	589-583	65-1498		910-416	-	714-583	3-5156	-2028	785-416
	591-6	63-6023		908-3		716-6	3-1006		783-3
9:	593-75	62-0549		906-25	21	718-75	2.6855		781-25
	595-83	60-5722		904-16		720-83	2.3844		779-16
	597-916	59-0896	1-4826	902-083	-	722-916	2-0833	0.3011	777-083
	600-0	57-6069	1	900-0	-	725-0	1.7822	PC TALL STORY	775-0
	602-083	56-1243		897-916		727-083	1-4811		772-916
10	604-16	54-6417		895-83	22	729-16	1-1800		770-83
	606-25	53-2319	******	893-75		731-25	1-0010		768-75
	608-3	51-8222	1-4097	891-6		733-3	0.8219	0-1790	766-3
- 3	610-416	50-4125		889-583		735-416	0-6429		764-583
74	612-5	49-0028		887-5	000	737-5	0.4639		762-5
11	614-583	47-5931		885-416	23	739-583	0.2848		760-416
	616-6	46-2644	1.0000	883-3		741-6	0.2279	0.0000	758-3
	618-75	44-9357	1.3287	881-25		743-75	0-1709	0-0570	756-25
	620-83	43-6069		879-16		745-83	0.1139		54-16
	622-916	42-2782		877-083	The same of the sa	747-916	0-0370		752-083

TABLE LXVII A.

(A) Sun's equation of the centre ("Equation c,") by the First Arya-Siddhanta from ⊙'s mean anomaly ("Arg. c,") (—100 (0°—180°).

Cols. 3, 4.—E₁uation and Difference stand for either of the mean anom. values in cols. 2a, 2b,

For the 24 base-equations see Table LXVII, ab ve.

" Arg. e" is O's mean anomaly in 1,000ths of circle.

Col. 3 .- The equation is o's greatest equation minus the actual equation, in 10,000ths of circle.

of sine.	Arg. c.	Equation c.	Diff.	Arg. c.	Serial No. of sine.	Arg. c.	Equation c.	Diff.	Arg c.
1	2a	3	4	25	1	2a	3	4	26
0	0-0	59-6875	1	500-0	12	125-0	17-4826	1	375-0
	2-063	58-9078		497-916		127-083	16-9479		372-916
	4-16	58-1281	> 0-7797	495-83		129-16	16-4132	> 0.5347	370-83
	6.25	57-3484		493-75	100	131-25	15-8785	Contract of	368-75
li anno	8.3	56-5687		491-6		133-3	15-3438		366-6
1	10-416	55-7890	1	489-583	13	135-416	14-8090	1	364-583
	12-5	55-0096		487-5		137-5	14-3125	I market	362-5
8000	14-583	54-2303	> 0-7793	485-416		139-583	13-8160	> 0.4965	360-416
1000	16-6	53-4510		483-3		141-6	13:3194		358-3
120	18-75	52-6717		481-25	1.0	143-75	12-8229)	356-25
2	20-83	51-8924		479-16	14	145-83	12-3264	1	354-16
10000	22-916	51-1215	1000000	477-083		147-916	11-8715	0.1510	352-083
	25.0	50-3507	> 0.7708	475-0	190	150-0	11-4167	> 0-4549	350.0
1000	27-083	49-5799		472-916		152-083	10-9618		347-916
	29-16	48-8090	2	470-83	100	154-16	10-5069	3	345-83
3	31-25 33-3	48-0382		468-75 466-8	15	156-25 158-3	10-0521 9-6389		343-75 341-6
	35-416	47-2778 45-5174	0.7604	464-583		160-416	9-2257	0-4132	339-583
100	37-5	45-7569	> 0.100#	462-5	1	162-5	8-8125	C 0.2102	337-5
	39-583	44-9965		460-416	1	164-583	8-3993		335-416
4	41-6	44-2361	K	458-3	16	166-6	7.9861	3	333-3
	43-75	43-4896		456-25	10	168-75	7-6181		331-25
	45.83	42-7431	> 0.7465	454-16		170.83	7.2500	> 0.3681	329-16
10-1	47.916	41-9965	0.1400	452-083		172-916	6.8819		327-083
	50-0	41-2500		450-0	1	175-0	6-5139	1	325-0
5	52-083	40-5035	15	447-916	17	177-083	6-1458	1	322-916
1967 14	54-16	39-7743		445-83	1010	179-16	5-8229	10000000	320-83
100	56-25	39-0451	> 0-7292	443-75	1 5000	181-25	5:5000	> 0.3229	318-75
	58-3	38-3160		441-6		183-3	5-1771	100	316-6
2011	60-416	37-5868		439-583	10	185-416	4.8542)	314.58
6.	62-5	36.8576	1	437-5	18	187-5	4-5313		312.5
100	64-583	36-1458	52555	435-416		189-583	4-2569	0.0040	310-416
	66-6	35-4340	0:7118	433-3		191-6	3-9826	> 0.2743	308-3
	68-75	34-7222	1	431-25		193-75	3-7083 3-4340		306-25
7	70-83 72-916	34-0104 33-2986	3	429-16 427-083	19	195-83 197-916	3-1597	3	304-16 302-082
	75-0	32-6076		425-0	Ta	200-0	2.9340		300-082
	77-083	21,0167	0-6910	422-916	4	202-083	2.7083	0-2257	297-916
	79-10	31-9167 31-2257	0.0010	420-83		204-16	2-4826	6 2201	295-83
-	81-25	30-5347		418-75	10.00	206-25	2-2569		293-75
3	83-3	29-8438	K	416-6	20	208-3	2.0312	3	291-6
18.1	85-416	29-1806		414-583	1 2	210-416	1.8542	Bereit	289-582
	87.5	28-5174	> 0-6632	412-5		212-5	1.6771	> 0-1771	287-5
ALC: U	89-583	27-8542		410-416		214-583	1.5000		285-410
1000	91-6	27:1910		408-3	1	216-6	1-3229)	283-3
9	93.75	26-5278	1	406-25	21	218-75	1.1458	1	281-25
	95-83	25-8924		404-16	**	220-83	1.0174		279-16
	97-910	25-2569		402-083		222-916		> 0-1285	277-083
	100-0	24-6215		400-0		225-0	0.7604	The State of	275-0
10	102-083	23-9861		397-916		227-083	0.6319	2	272-916
10	104-16	23-3507		395-83	22	229-16	0.5035	1	270-83
	106-25	22.7465		393-75	1	231-25	0-4279	0.0000	268.75
	108-3 110-416	22-1424		391.6		233-3 235-416	0.3522	≥ 0.0756	266-6
		21-5382		389-583 387-5	1	237-5	0.2766		264-583
11	114-583	20-9341 20-3299		385-416	23	237-5	0.2010	1	262-5
41	114-6	19-7604		383-410	23	241-6	0·1254 0·1003	1	260-416
	118-75	19-1910		381-25	1	243-75	0.0752	0-0251	258-3 256-25
	120.85	18-6215		379-16		245-83	0.0502	0-0251	
	122-916	18-0521		377-083		247-916	0.0302		254-16 252-08
		and treat	1.5	000	24	250-0	0.0201	1	250-0

TABLE LXVII A-Contd.

(B) Sun's equation of the centre (" equation c,") by the First \hat{A} rya-Siddhanfa, from \odot 's mean anomaly (" Arg. c.") 500—1000 (180°—360°).

Col. 3.—The equation is ⊙'s greatest equation plus the actual equation, in 10,000ths of circle.

Serial No. of sine.	Arg. c.	Equation c.	Diff.	Arg. c.	Serial No- of sine.	Arg. c.	Equation c.	Diff.	Arg. c.
1	2a	3	4	25	1	2a	3	4	25
0	500-0	59-6875	3	1000-0	12	625-0	101-8924		875-0
	502-083	60-4672	1	997-916	97	627-083	102-4271		872-91
	504-16	61-2469	> 0-7797	995-83		629-16	102-9618	- 0-5347	870-83
	506-25	62-0266		993-75		631-25	103-4965	0.0011	868-75
	508-3	62-8063		991-6		631-25 633-3	104-0312	1	866-6
1	510-416	63-5860	5	989-583	13	635-416	104-5660	<	864-58
- A	512-5	64-3654		987-5	10	637-5	105-0625		862-5
	514-583	65-1447	> 0-7793	985-416		639-583	105-5590	> 0-4965	860-41
	516-6	65-9240	0.1122	983-3		641-6	106-0556	0 4000	858-3
	518-75	66-7033		981-25		643-75	106-5521		856-25
2	520-83	67-4826	5	979-10	14	645-83	107-0486	4	854-16
	522-916	68-2535	1	977-083	100	647-916	107-5035	1	852-083
	525-0	69-0243	> 0.7708	975-0		650-0	107-9583	0-4549	850-0
	527-083	69-7951	-	972-916	1	652-083	108-4132	0 400	847-916
	529-16	70-5660		970-83		654-16	108-8681		845-83
3	531-25	71.3368	15	968-75	15	656-25	109-3229	S	843-75
- 67	533-3	72-0972		966-6	100	658-3	109-7361	1	841-6
	535-416	72-8576	> 0.7604	964-583		660-416	110-1493	> 0-4132	839-58
	537-5	73-6181	1 C 12 CO 19 C	962-5		662-5	110-5265	Contract Contract	837-5
	539-583	74-3785		960-416		664-583	110-9767		835-416
4	541-6	75-1389	1	958-3	16	666-6	111-3889	1	833-3
- 10	543-75	75-8854		956-25	100	668-75	111-7569		831-25
	545-83	76-6319	> 0-7465	954-18		670-83	112-1250	- 0.3681	829-16
	547-916	77-3785	CONTRACTOR OF	952-083		672-916	112-4931	10000	827-08
	550-0	78-1250		950-0	18	675-0	112-8611		825-0
5	552-083	78-8715	3	947-916	17	677-083	113-2292	1	822-916
	554-16	79-6007		945-83		679-16	113-5521	1	820-83
	556-25	80-3299	- 0-7202	943-75		681-25	113-8750	> 0.3229	818-75
	558-3	81-0590		941-6		683-3	114-1979		816-6
170	560-416	81-7882		939-583	-	685-416	114-5208		814-585
6	562-5	82-5174)	937-5	18	687-5	114-8438		812-5
	564-583	83-2292	AND THE PERSON	935-416		689-583	115-1181		810-416
	566-6	83-9410	> 0.7118	933-3		691-6	115-3924	> 0.2743	808-3
	568-75	84-6528		931-25		693-75	115-6667		806-25
	570-83	85-3646	2	929-16		695-83	115-9410	1	804-16
7	572-916	86-0764		927-083	19	697-916	116-2153		802-083
	575-0	86-7674	0.0010	925-0 922-916		700-0	116-4410	0.00**	800-0
	577-083	87-4583	> 0.6910			702-083	116-6667	0.2257	797-916
	579-16	88-1493		920-83		704-16	116-8924		795-83
0	581-25	88-8403	2	918-75 916-6	00	706-25 708-3	117-1181		793-75
8	583-3 585-416	89-5312		914-583	20	710-416	117-3438 117-5208		791-6
	587-5	90-1944 90-8576	0.6632	912-5		712-5	117-6979	> 0.1771	189-583
	589-583	91-5208	> 0:0032	910-416		714-583	117-8750	0.1111	787-5
	591-6	92-1840		908-3		716-6	118-0521		785-416
9	593-75	92-1840	4	906-25	21	718-75	118-2292	4	783-3
	595-83	93-4826		904-16	44	720-83	118-3576		781-25 779-16
	597-916	94-1181	0-6354	902-083		722-016	118-4861	0-1285	777-08
	600-0	94-7535	0.0004	900-0		725-0	118-6146	0.1200	775-0
	602-083	95-3889		897-916		727-083	118-7431		772-916
10	604-16	96-0243	4	895-83	99	729-16	118-8715		770-83
(37)	606-25	96-6285		893-75	1750	731-25	118-9471	-	768-75
	608-3	97-2326	0-6042	891-6		733-3	119-0228	0-0756	766-6
	610-416	97-8368	0.0042	889-583		735-416	119-0984	0.000	764-583
100	612-5	18-4410		887-5		737-5	119-1740		762-5
11	614-583	29-0451	5	885-416	23	739-583	119-2495	1	760-41
15.00	616-6	99-6146		883-3	7.0	741-6	119-2747		758-3
	618-75	100-1840	> 0-56.4	881-25		743-75	119-2998	0.0251	756-25
	620-83	100-7535	CAROLINE .	879-16		745-83	119-3248	A MARKET	754-16
	622-916	101-3229		877-083		747-916	119-3499		752-08
	APPLEADING		100	2800000000	24	750-0	119-3750	00	750-0

TABLE LXVIII.

INDICES OF TITHIS, KABANAS, YGGAS AND NAKSHATRAS, IN 10,000THS OF CIRCLE MEASUREMENT.

Indices of yogus "(y)" are numerically the same as those of nakshatras "(n),"

This Table corresponds to Table VIII, "Indian Calendar."

													-	
	INDEX OF ACTURE POINT OF NAKSHATRA AND YOGA BY THE UN- FIGURE STATISHS OF	Brahmis Siddhänta,	10	306-0108	549-005I	915-0270	1464-0432	1830-0540	2013-0594	2562-0756	2928-0864	3111-0918	3477-1026	3843-1134
	INDEX OF A. PRING POOR OF NAKSHATRA AN YOGA BY THE UK- FOUND FOUND SYSTEMS OF	Garga	6	370-370	555-5	925-925	1481-481	1851-851	2037-037	2592-592	2962-962	3148-148	3518-518	3888-8
NAKSHATRA.	Index of Nakshatra ("") and Yegs (""), Ordinary (cenal-	space) system.	-00	0 - 370-370	370-370- 740-740	740-746—1111-i	1111-j -1481-48i	1481-181-1851-851	1851-851-2222-2	2222-2 -2592-592	2592-592-2962-962	2962-962-3333-3	3333-3 -3703-703	3703-703 4074-074
	Name.		7	Asvinî	Bharapi	Krittika	Rohin!	Mrigasiras	Ardrā	Punarvasu	Pushya	Aslicahā	Maghā	Pürva-Phalguni .
	an age tea.	No. of Yo		1	01	60	*	10	.0	1-	00	6	10	=
										8	18			13
YOGA.	Name.		9	Vishkambha	Pritti .	Ayushmat	Saubhägya	Sobhana .	Atiganda	Sukarman	Dhṛiti .	Sula.	Ganda .	· Vriddhi .
		7		11 4		- 50		-		٠			-	•
	844	Second half of Tithi.	10	1 Bava .	3 Kaulava	5 Gara .	7 Vishtif	2 Balava	4 Taitila	6 Vaņij .	I Bava .	3 Kaulava	5 Gara .	7 Vishti .
	Karaya.	-					1						2.	
TITHI AND KARANA.		First half of Tithi.	9	Kimstughna* .	2 Balava	4 Taitila	6 Vaņij .	1 Bava .	3 Kaulava	5 Gara .	7 Vishtif	2 Balava	4 Taitila	5 Vaņij .
TITHI AN	Tithi-index (0.		8	0 - 333-3	333-3— 666-6	666-6-1000	1000 -1333-\$	1333-3-1666-6	1666-6-2000	2000 -2333-3	2333-3-2666-6	2866-6-3000	3000 —3333-3	3333-3-3066-6
	teha), or (luner	introl	03	Sakla.	01	63	*	10	9	1-	00	G	10	=
		Sarfal new	-	-	61	62	*	ю	9	7	00	Ci	40	E

17.					_		_	_	_	-		_	_		-	-		-	_	_
4392-1296	4758-1404	5124-1512	5307-1566			5856-1728	6222-1836	6405-1890	8601-1779	7137-2106	7686-2269§	7803-93528	8169-9460	8535-9568	8718-9622	9084-9730	9633-9892	10,000		
4414.4	4814-814	5185-185	5370-370			5925-925	6296-296	6481-481	6852-852	7222-9	7-7777	1	8148-148	8518-518	S703-703	9074-074	9629-629	10,000		
4074-071-4444-4	4444.4 -4814.81.1	4814-814-5185-185	5185-185-5555-5		1	5555-55925-925	5925-925-6296-296	6292-296-6666-6	6666-6 —7037-037	7037-037-7407-407	7407-407-7777-7	1	7777.7 —8148·148	8148-148-8518-518	8518-518-8888-8	8888-8 -9259-250	9259-259 9629-629	9029-029-10,000		
Uttara-Phalguni .	Hasta	Chites	Svāti .			Vinākhā	Anurādhā	Jy čahthā	Möla	Pärva-Ashādhā .	Uttara-Ashādhā .	Abhijieg	Sravana	Dhanishthuss .	Satabhishajf.	Perva-Bhadrapadā	Uttara-Bhadrapadā	Rēvatī		
21	13	77	15	N.	6	91	11	18	110	8	57		60	60	22	10	58	27		
7	- 2	21	DIE	4.			4	34	-2	•	10			12	Y			•		
Dhruva .	Vyāghāta .	Harshana	Vajra .			Siddhi;	Vyatīpāta	Variyas .	Parigha .	Siva .	Siddha .		Sādhya .	Subha .	Sukla .	Brahman	Indra .	Vaidhriti		1
		+	(4)			(4))			•	•	2	190	74	*		- 63		14		•
2 Balava	4 Taitila	6 Vanii	1 Bava .			3 Kaulava	5 Gara .	7 Vishtii .	2 Balava	4 Taitila	6 Vapij .	I Bava .	3 Kaulava	5 Gara .	7 Vishti .	2 Balava	4 Taitila	6 Vapij .	Sakuni .	Niga .
	*/-	10	100	- 1				*		*	2.3	2	-	٠		*	5.00			
l Bava .	3 Kaulava	5 Gars .	7 Vishti .	ā.		2 Balava	4 Taitila	6 Vaņij .	I Bava .	3 Kaulava	5 Gara .	7 Vishti .	2 Balaya	4 Taitila	6 Vaçij .	I Bava .	3 Kaulava	5 Gara .	7 Vishti .	Chatushpadi
3663-6-4000	4000 —4333-3	4333-3 4666-6	4668-6-2000		4	2000 -2333-3	5333-3-5666-6	2666-6-6000	6000 -6333-3	6333-3—6666-6	6666-6-7000	70007333-3	7333-5-7666-6	7666-6-8000	8000 -8333-3	8333-3-8066-6	8668-8-9000	9000 9333-\$	9333-3-9666-6	9f96-6-10,000 Chatushpada
21	113	14	10	.agdai.	N.	4	04	02	+	19	9	-	90	a	10	=	12	13	Z	18
01	13	14	93	-		97	11	18	119	20	21	03	60	24	100 100 100 100 100 100 100 100 100 100	20	27	88	50	30

* or Kinitughna.

§ The figures given in Col. 10 follow the limits of Abbijit as given in the "Indian Calandar," p. 22, viz., from 276" 42' 15" to 280" 55' 30". Professor Jacobi and Dr. Burgess, however, give these limits as from 270" 40' to 281" 40' (Epig. Ind. I., p. 449; Journal R. A. S., 1893, p. 755). If they are correct, Abbijit (Col. 10) should be read as beginning at 7685-1852 and ending at 7824-074.

TABLE LXIX.

SERIAL NUMBER OF DAYS IN A YEAR A.D. FOR TWO CONSECUTIVE YEARS.

N.B.—The numbers given are those in a common year. In Leap-years, after February 29, the day of the month must be reduced by 1. Thus Day 153, in a Leap-year, is not June 2, but June 1.

The Table is the same as Table IX, "Indian Calendar."

PART I.

nonth.			UMBER O	F DAYS	RECKONE	D FROM 1	ar oast	ani oz				-	mont
Day of month.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Day of month
1	- 1	32	60	91	121	152	182	213	244	274	305	335	
0	1 2 3	33	61	92	122	153	183	214	245	275	306	336	1
2	3	34	62	93	123	154	184	215	246	276	307	337	
4	4	35	63	94	124	155	185	216	247	277	308	338	
1 2 3 4 5	5	36	64	95	125	156	186	217	248	278	309	339	1
6	6	37	65	96	126	157	187	218	249	279	310	340	
7	7	38	66	97	127	158	188	219	250	280	311	341	
6 7 8 9	8	39	67	98	128	159	189	220	251	281	312	343	
9	9	40	68	99	129	160	190	221	252	282	313	344	
10	10	41	69	100	130	161	191	222	253	283			
11	11	42	70	101	131	162	192	223	254	284	315	345	
12	12	43	71	102	132	163	193	224	255	285	316 317	346 347	
13	13	44	72	103	133	164	194	225	256	286	318	348	
14	14	45	73	104	134	165	195	226	257	287 288	319	349	
15	15	46	74	105	135	166	196	227	258		2000000	949	
16	16	47	75	106	136	167	197	228	259	289	320	350	
17	17	48	76	107	137	168	198	229	260	290	321	351	
18	18	49	77	108	138	169	199	230	261	291	322	352	1
19	19	50	78	109	139	170	200	231	262	292	323	353	
20	20	51	79	110	140	171	201	232	263	293	324	354	
21	21	52	80	111	141	172	202	233	264	294	325	355	Г
21 22 23	22	53	81	112	142	173	203	234	265	295	326	356	
23	23	54	82	113	143	174	204	235	266	296 297	327 328	357	
24	24	-55	83	114	144	175	205	236	267 268	297	328	358 359	l
25	25	56	84	115	145	176	206	237	208	200	928	909	
26 27	26	57	85	116	146	177	207	238	269	299	330	360	
27	27	58	86	117	147	178	208	239 240	270 271	300	331 332	361 362	
28	28	59	87	118	148	179	209	241	271	302	333	363	
29	29	60	88	119	149	180	210	241	273	303	334	364	
30	30	490	89	120	150	181		122,000	210		994	0.00	
31	31	222	90		151	***	212	243	766	304	166	365	
	Jat.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	

TABLE LXIX-Contd.

SERIAL NUMBER OF DAYS IN A YEAR A.D. FOR TWO CONSECUTIVE YEARS.

N. B.—When the previous year was a Leap-year, the days of the month must all be reduced by 1; and so all those after February 29, when the given year is a Leap-year.

Th	AR	PROF.	

mont	-		1	1	Lacor	EAUN I	JANUARI	OFTHE	PRECED	ING YEAT	n.		onth.
Dey of month.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec	Day of month.
1	366	397	425	456	486	517	547	578	609	639	670	700	
3 4	367	398	426	457	487	518	548	579	610	640	671	701	
3	368	399	427	458	488	519	549	580	611	641	672	702	1 2
5	369	400	428	459	489	520	550	581	612	642	673	703	
	370	401	429	460	490	521	551	582	613	643	674	704	
6789	371 372	402	430 431	461	491	522	552	583	614	644	675	705	
8	373	404	432	462	492	523	553	584	615	645	676	706	
9		405	433	463 464	493	524	554	585	616	646	677	707	1
10	374 375	406	434	465	495	525 526	555	586	617	647	678	708	1
100	Party E	-					556	587	618	648	679	709	10
11 12	376	407	435	466	496	527	557	588	619	649	680	710	1
13	377 378	408	436	467	497	528	558	589	620	650	681	711	1
14	379	409	437	468	498	529	559	590	621	651	682	712	1
15	380	410 411	438	469	499	530	560	591	622	652	683	713	14
	1000		439	470	500	531	561	592	623	653	684	714	18
16	381	412	440	471	501	532	562	593	624	654	685	715	16
17	382	413	441	472	502	533	563	594	625	655	686	716	17
19	383	414	442	473	503	534	564	595	626	656	687	717	18
20	384	415	443	474	504	535	565	596	627	657	688	718	18
	9,6,4	416	444	475	505	536	566	597	628	658	689	719	20
21	386	417	445	476	506	537	567	598	629	659	690	720	21
22 23 24 25	387	418	446	477	507	538	568	599	630	660	691	721	00
3	388	419	447	478	508	539	569	600	631	661	692	722	22
7 k	389	420	448	479	500	540	570	601	632	662	693	723	24
	390	421	449	480	510	541	571	602	633	663	694	724	25
6	391	422	450	481	511	542	572	603	634	664	695	725	26
8	392	423	451	482	512	543	573	604	635	665	696	726	27
0	393 394	424	452	483	513	544	574	605	636	666	697	727	28
9	395	425	453 454	484 485	514 515	545 546	575 576	606	637 638	667 668	698 699	728	29
1	396		455	440	516		577	608	200	669		729	30
	Trees, Fall				0.0		0.11	000	***	000	- 600	730	#1
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Doc.	

TABLE LXX.

Conversion of Tithi-parts and indices of Tithis, Nakshatras and Yogas into time.

(Corresponding to Table X, "Indian Calendar.")

1 unit of the "Argument"=4m·2524 (a trifle over 41 minutes of time), in the case of the tithiindex (t), and 4m·3831 in the case of the nakshatra-index (n).

	Tom	E EQUIT	VALENT	OF		Tr	ME	EQUIV	ALENT	OF		Tr	HE EQUIV	ALENT O	
nent.	Tithi- parts.	Tithi- index (t).	Nak- shatra index (n).	Yōga- index (y)-		Tithi parts	i		Nak- hatra index (n).	Yōga- index (y)-	Argumont.	Tithi- parts.	Tithi- index (t).	Nak- shatra index (n).	Yêga- index (y)
Argument.	н. м.	н. м.	н. м.	н. м.	Argu	H. M	. 1	H. M.	н. м.	н. м.	Argu	н. м	H. M.	H. M.	н. м.
1 2 3 4 5	0 1 0 3 0 4 0 6 0 7	0 4 0 9 0 13 0 17 0 21	0 4 0 8 0 12 0 16 0 20	0 4 0 7 0 11 0 15 0 18	41 42 43 44 45	0 58 1 0 1 1 1 2 1 4		2 54 2 59 3 3 3 7 3 11	2 41 2 45 2 49 2 53 2 57	2 30 2 34 2 37 2 41 2 45	76 77 78 79 80	1 48 1 49 1 51 1 52 1 53	5 23 4 27 5 32 5 36 5 40	4 59 5 3 5 7 5 11 5 15	4 38 4 42 4 46 4 49 4 53
6 7 8 9 10	0 9 0 10 0 11 0 13 0 14	0 26 0 30 0 34 0 38 0 43	0 24 0 28 0 31 0 35 0 39	0 22 0 26 0 29 0 33 0 37	46 47 48 49 50	1	8 9	3 16 3 20 3 24 3 28 3 33	3 1 3 5 3 9 3 13 3 17	2 48 2 52 2 56 2 59 3 3	81 82 83 84 85	1 55 1 56 1 58 1 59 2 0	5 44 5 49 5 53 5 57 6 1	5 19 5 23 5 27 5 30 5 34	4 57 5 0 5 4 5 7 5 11
11 12 13 14 15	0 16 0 17 0 18 0 20 0 21	0 47 0 51 0 55 1 0 1 4	0 43 0 47 0 51 0 55 0 59		51 52 53 54	111111111111111111111111111111111111111	4 5 7	3 37 3 41 3 45 3 50	3 21 3 25 3 29 3 32	3 14 3 18	86 87 88 89		6 6 6 10 6 14 6 18	5 38 5 42 5 46 5 50	5 18 5 18 5 20 5 20
16 17 18 19 20	0.27	1 21	1 11	1 2 1 6 1 10	55 56 57 58	111	9 21 22	3 54 3 58 4 2 4 7	3 46 3 46 3 48	3 25 3 29 3 32		2 9 2 10 2 12	6 23 6 27 6 31 6 35	5 54 5 58 6 2 6 6	5 20 5 30 5 30 5 40
21 22 23 24	0 31 0 33 0 34	1 34 1 35 1 45	1 27 3 1 30 2 1 30	1 21 1 24 1 1 28	59 60	1:	25	4 11 4 15	3 55	3 40	9.5	2 15	6 40	6 10 6 14	5 4
20 20 20 20 20 20 20 20 20 20 20 20 20 2	0 37 0 38 0 40 0 4	1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	1 1 42 5 1 40 9 1 50 3 1 5	2 1 35 6 1 39 0 1 42 4 1 46	61 62 63 64 65	1	28 29 31	4 19 4 24 4 28 4 32 4 36		3 47 3 51 3 54	95	2 17 2 19 2 20	6 52 6 57 7 1	6 18 6 22 6 26 6 29 6 33	5 5 5 5 6
31 33 33 33	0 4 2 0 4 3 0 4 4 0 4	2 1 5 2 1 7 2 2 8 2 2	2 2 3 6 2 1 0 2 1 5 2 1	2 1 53 6 1 57 0 2 1 4 2 4	66 67 68 69 70	1 1	35 36 38	4 41 4 45 4 49 4 53 4 58	4 2 4 3	4 4 5 8 4 9 1 4 13	30 40 50	7 5 9 27 11 49	21 16 28 21 35 26	13 7 19 40	
33 33 34	8 0 5 7 0 5 8 0 5 9 0 5	1 2 3 2 2 3 4 2 4 5 2 4	3 2 2 7 2 2 2 2 3 6 2 3	2 2 12 6 2 15 0 2 19 3 2 23	74	1 1	42 43 45	5 2 5 6 5 10 5 15 5 15	4 4 4 4 5	3 4 24 7 4 27 1 4 31	900 1000) 18 54) 21 16	56 42 63 47		

TABLE LXXI.

THE EUROPEAN CALENDAR.

	Α.	In	TIAL	DAY			NDAR	8.		N A	ND (leege	HIAN			WE	ABL) B(oni		HAR.
		1					Centi	uries:	A.D.				ш		Ė	S	Mo	Tu	w	Th	Fr	Sa	
					Old	Sty	de.			- 60	New	Styl	e.		in.	Mo Tu	W	W	Th	Fr Sa	Sa	S Mo	arm.
yea	dd us (of								Sa	Fr	W	Mo		donths in Common-	W	Th	Fr	Sa S	S Mo	Mo	Tu W	fonths in Loap-years.
cent	turi	08.	700		900	1000	1100	1200	1300	1600	1700	1800	1500	ari.	Months	Fr	Sa S	S Mo	Mo Tu	Tu W	W	Th Fr	Months in Leap-yea
			1400	1500	1600	1700	1800	1900	2000	2000	2100	2200	2300	Leap-years.		1	2	3		5	6	7	
							Init	iaI d	ays.			7		F	Jan. Oct.	15	16	17	18	12	20	21	Jan. April.
	8 56			w	Tu	Mo	s	Sa	Fr	Sa	Th	Tu	s	L.Y.		22 29			25	26		28	July.
2 3		86	S	Fr Sa	Th Fr	W	Tu W	Mo Tu	S Mo	Mo Tu	Sa	Th Fr	Tu W		Feb.	5	6	7	8	2	3 10		Feb.
718	1 59			8	Sa	Fr	Th	W	Tu	W	Mo	Sa	Th		Mar. Nov.	12	20	14 21	15 22	16 23	24		Aug.
5 33		89	Th	Mo W	S	Sa Mo	Fr 8	Th Sa	W Fr	Th Sa	Tu	S	Fr 8	L.Y.	100000	26	27	28	20	30	31	1	
6 34 7 35	47415.14	EL PASSAGE	75,77	Th Fr	W Th	Tu W	Mo Tu	8 Mo	Sa S	S Mo	Fr Sa	Th	Mo Tu		April	9	3 10	11	5 12	6 13	14		Sept.
8 36		92	(PMC) ()	Sa	Fr	Th	w	Tu	Mo	Tu	S	Fr	W	L.Y.	July	16 23	17 24	18 25	19 26	20 27	21 28	22 29	Dec.
9 37 10 38 11 39	66	93	W	Mo Tu W	S Mo Tu	Sa	Fr Sa S	Th Fr Sa	W Th Fr	Th Fr Sa	Tu W Th	Mo Tu	Fr Sa S			30	31	1	2	3	4	5	
12 40		95	1000	Th	W	Mo	Mo	S	Sa	Sa S	Fr	W	Mo	L.Y.	Aug	6	14	8 15	9 16	10 17	11		May
13 41 14 42	69	97 98	S	Sa S	Fr Sa	Th	W	Tu	Mo Tu	Tu W	S Mo	Fr Sa	W	LAY		20 27	21 28	22 29	23 30	24 31	25	26	
15 43	70.00	99		Mo	S	Sa	Fr	Th	w	Th	Tu	S	Fr			3	4	5	6	7	1 8	9	
16 44 17 45		100	W	Tu Th	Mo W	S Tu	Sa Mo	Fr	Th Sa	Fr S	W	Mo W	Sa Mo	L.Y.	Sept. Dec.	10 17	11 18	12 19	13 20	14	15 22	16 k	June
18 46 19 47	74		Sa S	Fr Sa	Th Fr	W	Tu	Mo Tu	S Mo	Mo Tu	Sa S	Th Fr	Tu			24 31	25	26	27	28	29	30	
20 48			Мо	Sa	Sa	Fr	Th	w	Tu	w	Mo	Sa		L.Y.	A.	7	1 8		3 10	11	5 12	6 13	
21 49 22 50	77		W	Tu W	Mo Tu	8 Mo	Sa	Fr Sa	Th	Fr Sa	W	Mo To	Sa S		May.	14 21	22	23	17 24			20 C 27	Jet.
23 51			Fr	Th	W	Tu	Мо	S	Sa	S	Fr	W	Mo			28	29	30	31	1	2	3	
$\frac{24}{25} \frac{52}{53}$			Sa Mo	Fr	Th Sa	W	Tu	Mo	S	Mo W	Sa Mo	Th Sa	Tu Th	L.Y.	June	4	5 12	6	7	8	9	10 A	
$\frac{2654}{2755}$	82		Tu	Mo Tu	S Mo	Sa 8	Fr Sa	Th	W	Th Fr	Tu	S Mo	Fr Sa		SALT -	18	19	20	21	22	23	24 31	Table

To find the initial day of a given year A.D. take the day marked in Section A, perpendicular under the given century and horizontal opposite the given year. Note this initial day in column 2 of the heading of Section B. Find the given day of month in the body of Section B. Run up to the week-day in horizontal line with the initial day in the heading. The day so found is the week-day of the given day of month and year.

E.7. Wanted week-day of 23rd March, A D 645. At junction of century 600 (perpendicular) and 45 (horizontal) in Section A is Saturday. This was the initial day of A.P. 645. The year was common. The week-day noted in the heading of Section B at the junction of 23rd March (perpendicular) and of "Sa." in column 2 of heading (horizontal) is "W," Wednesday. Therefore 23rd March, A.D. 645, was a Wednesday.

In common years work with the month on left, in leap-years with that on right.

N. B.—In the New Style the years 1600 and 2000 are leap-years, but 1700, 1800, 1900 are common years. The initial week-day of the first year of each New Style century is given above it in heading of Section A.

The initial week-day of the first year of each New Style century is given above it in heading of Section A. For the initial week-day of other years of the century look for the day in the junction of columns as mentioned above; e.g., A.D. 1900 began (top) on Monday. 1901 began (junction of columns) on Tuesday. 1928 begins on Sunday. 1919 began on Wednesday

TABLE LXXII.

VALUE OF a, b, c at beginning of centuries of the Kaliyuga by the First Arya-Siddhanta at mean sunbise on day of occurrence of mean Mesha-Sańkranti, which is the moment when mean sun reaches longitude 0°.

Century.	Week- day.	a.	ь.	c.
36	0	7177-6056	135-4688	279-9111
37	0.	6045-4346	723-3175	280-2723
38	0.	4913-2637	311-1661	280-6336
39	0	3781-0927	899-0148	280-9948
40	0	2648-9218	486-8635	281-3560
41	0	1516-7509	74-7121	281-7172
42	0	384-5799	662-5608	282-0784
43	6	8913-7771	214-1179	279-7019
44	6	7781-6062	801-9665	280-0631
45	6	6649-4352	389-8152	280-4243
46	6	5517-2643	977-6639	280-7855
47	6	4385-0933	565-5125	281-1467
48	6	3252-9224	153-3612	281-5079
49	6	2120-7515	741:2099	281-8692
50	5	649-9486	292-7669	279-492

N. B.—The value of "b", the (s mean anomaly, is given as estimated by Professor Jacobi. The present author estimates us tatue as less than the given amount by 3.5. In a way close cass both valuations may be tried.

TABLE LXXIII.

Increase of a, b, c for years of the K. Y. Century by the Ārya-Siddhānta.

• Years thus marked are years of 366 days, the rest of 365 each.

ear.	W-d.	a.	b.	c.	Year.	W-d.	a.	b.	c,
0	0	0	0	0	50	- 0	4433-9145	793-9243	0-180
ĭ	1	3600-6340	246-4427	999-2918	51	1	8034-5485	40-3670	999-473
•2	2	7201-2680	492-8853	998-5836	*52	2	1635-1825	286-8097	998-76
3	4	1140-5339	775-6196	0-6131	53	4	5574-4484	569-5439	0-79
4	5	4741-1679	22-0623	999-9049	54	5	9175-0824	815-9866	0.08
		I CONTRACTOR	- CONTRACTOR	550 15000	177000	3.76	Many of State	PAREERICA.	
*6	6	8341·8019 1942·4359	268-5049 514-9476	999-1967 998-4885	*56	6 0	2775-7164 6376-3504	62-4293 308-8719	999-37
7		5881-7018	797-6819	0.5181	57	2	315-6163	591-6062	0-69
	3		44-1246	999-8099	58	3	3916-2503	838-0489	999-99
8	4	9482·3358 3082·9698	290-5672	999-1017	59	4	7516-8843	84-4916	999-28
*10	5	6683-6038	537-0099	998-3934	*60	-5	1117-5183	330-9342	998-57
*10	1.0240	622-8697	819-7442	0-4230	61	0	5056-7842	1000 CVC CC CC CC CC CC CC CC CC CC CC CC CC	0-60
11	0	The second secon			10.000	11.7541	500 St. 7-476 W. S. 7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	613-6685	LIFE AND THE STORY
12	1	4223-5037	66-1868	999-7148	62	1	8657-4182	860-1112	999-89
*13 14	2 4	7824-1377 1763-4035	312-6295 595-3638	999-0066 1-0362	*64	2 3	2258-0522 5858-6862	106-5538 352-9965	999-18 998-47
**		1100-1000		The state of the s		1000	1050000000	-70-00-00-00-0	THEMSEL
15	5	5364-0375	841-8065	0.3280	65	5	9797-9521	635-7308	0-50
16	6	8964-6716	88-2491	999-6197	66	6	3398-5861	882-1735	999-09
•17	0	2565-3056	334-6918	998-9115	3.4550	0	6999-2201	128-6161	P. C. St. Company of the Co.
18	2 3	6504·5714 105·2054	617-4261 863-8687	0-9411 0-2329	*68	1 3	599-8541 4539-1200	375-0588 657-7931	998-38
	-	2000000	Edit at 2000	Salari (HE	-37	18			
20	4	3705-8394	110:3114	999-5247	70	4	8139:7540	904-2357	999-70
*21	5	7306-4734	356 7541	998-8165	*71	5	1740-3880	150-6784	998-99
22	0	1245-7393	639-4884	0:8460	7.2	0	5679-6539	433-4127	1.02
23	1	4846-3733	885-9310	0-1378	73	1	9280-2879	679-8554	0.31
24	2	8447-0073	132-3737	999-4296	74	2	2880-9219	926-2980	999-61
*25	3	2047-6413	378-8164	998-7214	*75	3	6481-5559	172-7407	998-90
26	5	5986:9072	661-5506	0.7510	76	5	420-8217	455.4750	0-93
27	6	9587-5412	907-9933	0.0428	77	6	4021-4557	701-9176	0.22
28	0	3188-1752	154-4360	999-3346	78	0.	7622-0897	948-3603	999-51
•29	1	6788-8092	400-8786	998-6263	*79	1	1222-7238	194-8030	998-80
- 00		728-0751	683-6129	0-6559	80	3	5161-9896	477-5372	6-83
30	3	1 / 10 (C. O. Lawrence C. C. C. C. C. C. C. C. C. C. C. C. C.	930-0556	999-9477	81	4.	8762-6236	723-9799	0-12
31	4	4328-7091	176-4982	999-2395	82	5	2363-2576	970-4226	999-43
32	5	7929-3431	A STATE OF THE PARTY OF THE PAR	998-5313	*83	6	5963-8916	216-8652	998-7
*33	6	1529-9771 5469-2430	422-9409 705-6752	0.5609	84	1	9903-1575	499-5995	0-7
					85	2	3503-7915	746-0422	0-03
35	2	9069-8770	952-1179	999-8526	86	3	7104-4255	992-4849	999-33
36	3	2670-5110	198-5605	999-1444	*87	4	705-0595	238-9275	998-6
*37	4	6271-1450	445-0032	998-4362	88	6	4644-3254	521-6618	0-6
38	6	210-4109	727-7375	0-4658	89	0	9244-9594	768-1045	999-93
39	0	3811-0449	974-1801	999-7576			250 M. 1440 E	1200 - 1200 - 1200	
	1				90	1	1845-5934	14-5471	999-2
40	1	7411-6789	220-6228	999-0494	*91	2	5446-2274	260-9898	998-5
*41	2	1012-3129	467-0655	998-3412	92	4	9385-4933	543-7241	0.50
42	4	4951-5788	749-7998	0-3707	93	5	2986-1273	790-1668	999-8
43		8552-2128	996-2424	999-6625	94	6	6586-7613	36-6094	999-1
*44	6	2152-8468	242-6851	998-9543	805	1 2	207 0000	000.0503	000.0
-		7101		100	*95	0	187-3953	283-0521	998-4
- 51	9.	ESSERCE:	1	diam'r.	96	2	4125-6612	565-7864	0-4
45	1	6092-1126	525-4194	0-9839	97	3	7727-2952	812-2290	999-7
46	2	9692-7466	771-8620	0.2757	98	4	1327-9292	58-6717	999-0
47	a	3203-3806	18-3047	999-5675	*99	5	4928-5632	305-1144	998-3
•48	4	6894-0147	264-7474	998-8592	1000	1 74	0000 0000	200 0400	765.60
49	6	833-2805	5-7-4817	0.8888	100	0	8867-8291	587-8487	0.3

TABLE LXXIV.

Daily values of a, b, c from 0 Mina to 2 Mesha.

For calculation of their value at mean sunrise on the day Chaitra Sukla 1.

Interval of days from true Mësha- samkranti.	days from Solar Solar month		Week day.	a.	b,	c.
1	+2		3	4	5	6
30	Mina	0	3	9163-7800	838-6681	912-3908
29	THE PERSON NO.	1	4	9502-4119	874-9597	915-1286
28	28	2	5	9841-0438	911-2513	917-8664
27	**	3	6	179-6756	947-5429	920-6042
26	"	4	0	518-3075	983-8345	923-3420
25		5	1	856-9394	20-1262	926-0798
24	**	6	2	1195-5713	56-4178	928-8176
23		7	3	1534-2032	92-7094	931-5554
99	11	8	4	1872-8350	129-0010	934-2931
21	**	9.	5	2211-4669	165-2927	937-0309
20	"	10	6	2550-0988	201-5843	939-7687
19	29	11	0	2888-7306	237-8759	942-5005
18	**	12	1	3227-3625	274-1675	945-2443
17	**	13	2	3565-9944	310-4591	947-9821
16	77.	14	3	3904-6263	346-7508	950-7199
15	**	15	14	4243-2581	383-0424	953-4576
14	**	16	5	4581-8900	419-3340	956-1954
13	**	17	6	4920-5219	455-6256	958-9332
12	**	18	0	5259-1538	491-9173	961-6710
11	**	19	1	5597-7856	528-2089	964-4083
10	**	20	9	5936-4175	564-5005	967-1466
9	**	21	3	6275-0494	600-7921	969-8844
8	10	22	4	6613-6813	637-0838	972-6221
8 7 6		23	5	6952-3131	673-3754	975-3599
5	75	24	- 6	7290-9450	700-6670	978-0977
5		25	0	7629-5769	745-9586	980-8355
4	**	26	1	7968-2088	782-2503	983-5733
3	91	27	2	8306-8406	818-5419	986-3111
3 2	11	28	3	8645-4725	854-8335	989-0489
1	20	29	4	8984-1044	891-1251	991-7866
	Māsha	0		9322-7363	927-4168	994-5244
	**	1	6	9661-3681	963-7084	997-2622
	24	2	0	0	0	0

The figures for Mesha 0 are those for mean sunrise on the day when true Mesha-samkranti occurred, i.e., on the day when true sun reached long. 0°.

The table serves equally for calculation from the day of mean Mesha-samkranti by noting the interval of days

TABLE LXXV.

Moon's equation of centre by the First Ārya-Siddhānta.

(For equation of sun's centre see Table XLVII, above.)

Seaso				P MEAN ANGLE			Eq	UATION.	100 10		Seria	
Serial No. of sine.	Moon's		Value in mi- nutes, Diff- erence,		Equation in minute			Equation in 10,000th of circle.	Moon's	No. of sine.		
1	2		3	4		10	5	6	7	8		1
0	0° 0′	180° 0′	0'	225	0*	0'	0"	5.250	0	180" 0'	360° 0'	0
1	3 45	176 15	225	224	0	19	41.25	5-226	9.114583	183 45	356 15	1
2	7 30	172 30	449		0	39	17:25	5:180	18-188657	187 30	352 30	2
3	11 15	168 45	671	222	0	58	42.75	351557610	27-181713	191 15	348 45	3
4	15 0	165 0	890	219	1	17	52.5	5.110	36-053240	195 0	345 0	4.
5	18 45	161 15	1105	215	1	36	41-25	5-016	44-762730	198 45	341 15	5
6	22 30	157 30	1315	210	1	55	3.75	4.900	53-269675	202 30	337 30	6
7	26 15	153 45	1520	205	2	13	0.0	4.783	61-574074	206 15	333 45	7
8	30 0	150 0	1719	199	2	30	24-75	4.643	69-635415	210 0	330 0	8
9	33 45	146 15	1910	191	2	47	7-8	4.456	77-372684	213 45	326 15	9
10	37 30	142 30	2093	183	3	3	8-25	4-270	84-785878	217 30	322 30	10
	41 15	138 45	2267	174	3	18	21.75	4.060	91-834490	221 15	318 45	11
11		135 0	2431	164	3	32	42.75	3-926	98-478009	225 0	315 0	12
12	45 0	137 E	Second	154	3	46	11.5681	3-5947	104-718890	228 45	311 15	13
13	48 45	131 15	2585	143				3-3516			307 30	14
14	52 30	127 30	2728	131	3	58	45-6696	3:0603	110-537572	232 30		
15	56 15	123 45	2859	119	136	10	16-4900	2-7979	115-867978	236 15	303 45	15
16	60 0	120 0	2978	106	4	20	44-0290	24844	120.710099	240 0	300 0	16
17	63 45	116 15	3084	93	4	30	3-0134	2-1797	125-023250	243 45	296 15	17
18	67 30	112 30	3177	79	4	38	13-4431	1-8416	128-807432	247 30	292 30	18
19	71 15	108 45	3256	65	4	45	10:0446	1.5234	132-021949	251 15	288 45	19
20	75 0	105 0	3321	1	4	50	52:8179	1-1953	134-666805	255 0	285 0	20
21	78 45	101 15	3372	51	4	55	21.7634	0-8672	136-742001	258 45	281 15	21
22	82 30	97 30	3409	37	4	58	36-8804	Contract of	138-247533	262 30	277 30	22
23	86 15	93 45	3431	22	5	0	32-8962	0.5156	139-142717	266 15	273 45	23
24	100 0	90 0	3438	7	5	1	9-8103	0.1641	139-427548	270 0	270 0	24

THE FIRST ARYA-SIDDHANTA, MEAN SYSTEM.

303. It has long been known that in earlier years the Paüchäng Brahmans in India framed their local almanacs on calculations made by the use of the mean, as opposed to the true or apparent, motions of the sun and moon. The change from the mean to the true systems of calculation was advocated by Śripathi (A.D. 1040), and the latter system may have been adopted in some places about that time; becoming more general from about A.D. 1100 onwards. India, however, is a very conservative country, and the late Dr. Fleet was of opinion that the mean system may have been adhered to, in some tracts at least, till a far later date.

304. With this opinion in mind I have prepared the Tables which follow, so as to cover the period of nine centuries from Āryabhaṭa's date, K.Y. 3600 (A.D. 499-500), to 4500 (A.D. 1399-1400). It would be well if all dates of inscriptions that have hitherto been set aside as irregular by Epigraphists could be re-examined, seeing that the difference between the two systems of the Ārya Siddhānta constantly leads to differences in the computed positions of the sun and moon on the same civil day, and consequently to differences in the almanac; let alone the differences caused by the use of different Siddhāntas.

Thus, to give an example. The civil day, Monday, 21 October A.D. 1090, was by the Arya Siddhānta true system described as "Monday, 25 Tulā, nija Āśvina kr. 10," while by the mean system it was "Monday, 27 Tulā, Kārttika kr. 10." Thursday, 31 Oct., in the same year was by the true system "Thursday, 5 Vrišchika, Kārttika šukla 6," while by the mean system it was "Thursday, 7 Vrišchika, Mārgašira šukla 5."

305. The present Tables are based on the First Arya Siddhanta as amended by Lalla. The principal Table LXXVI is framed on the lines of the *Indian Calendar*, Table I, so as to meet the convenience of Epigraphists who have become accustomed to the use of that work. The numbers of the columns are made to correspond in both Tables.

Results of calculation carried out by the present Tables will be found to correspond with hose worked by use of Prof essor H. Jacobi's skeleton Tables published in *Epig. Ind.* Vol. XI. There is no need for me to dwell on the great services he has rendered to the cause of Indian history and epigraphy. These are well known. All I have done is to follow in his footsteps, verify his figures to the best of my ability and apply the results to practical use. Some little differences that exist between us have been fully set forth and their cause explained.

Elements. Arya Siddhanta, mean system.

- 306. (i) The length of the mean sidereal solar year is 365^d 6^h 12^m 30^s, or 365^d, 2586805.
- (ii) For the sun's mean motion per day, hour, etc., see Tables XLIII, XLIV, above.
- (iii) The distance of mean moon from mean sun (our "a"), measured in 10,000ths of the circle, i.e. 10,000ths of the mean synodical revolution of the moon and excluding 12 whole revolutions, increases, during one sidereal solar year, from 0 to 3688-231484714. That is the advance of "a" in the year. Table LXIV-A above col. 3, shews this advance per day, and Table LXV the advance per hour etc.

- (iv) The value of "a" in mean reckoning corresponds to that of "t", the tithi-index, in true reckoning. It shews what mean tithi was current at the moment in question.\(^1\) In general calculation by the Tables this moment is the moment of mean suurise at Lank\(^a\), taken as 6 a.M.
- (v) In reckening by 10,000ths of the circle the advance of "a" in one mean solar month is 307:352623726.
- (vi) Each mean solar month consists of 30^d 10^h 31^m 2½^s. The collective duration from the moment of mean Mēsha-samkrānti (the beginning of the mean solar year when the mean sun is at celestial long. 0°) to each separate samkrānti, or the moment when the mean sun enters each of the signs, is given in Table LXXVII.
- (vii) The length of each mean lunar month is 29d 12h 44m 2º·79 or 29d·530587946, during which the mean moon's distance from mean sun, "a" increases, in our circle reckoning, from 0 to 10,000. The length of one mean tithi, or one-thirtieth of the mean lunar synodic month, is 23b 37m 28º·09, or 0d·984352931; during which, in circle reckoning, the increase of "a" is 333 3.
- (viii) The sodhya, or time-difference between the moments of arrival at celestial long. 0° of the true and mean suns, which moments are known respectively as the true and mean Meshasankrantis, is 2^d 3^h 32^m 30^s, true Mesha-sankranti being the earlier. This is invariable.

The time of occurrence of mean Mēsha-samkrānti in every year is given in Table LXXVI, cols. 13 to 17.

- (ix) The same area name of the solar year is the same by both true and mean reckonings, except in the years A.D. 564-5, 905-6, 990-1, 1246-7 and 1331-2. A special footnote is appended to the main Table LXXVI in each case.
- (x) There can be no suppression of a lunar month when calculation is made by the mean system; for the length of a mean solar month is greater than that of a mean lunar month, so that two mean solar samkrantis cannot take place within the limits of one mean lunar month.
- (xi) Let it be noted that no intercalation of a lunar month can take place unless, at mean starrise of the day on which mean Mēsha-samkrānti took place, the value of "a" is more than 6280 4892, or unless at the moment of mean Mēsha-samkrānti the value of "a" is more than 6619 1211; the latter value being 10,000 3380 8789, the total increase of "a" from Mēsha- to Mīna-samkrānti, and the former being 6619 1211 338 6319, this last being the increase of "a" in 24-hours.

The 19-year intercal stion cycle

307. (See Indian Calendar, § 50, p. 29.) By the mean system the cycle-sequence is found to work with almost perfect regularity. After four successive intercalations at intervals of 19 years each the intercalated lunar month gives way to the month preceding it. But there are two exceptions in the nine centuries embraced in Table LXXVI. Between A.D. 751 and 827 there is a run of five intercalary mean Pausha months, and between A.D. 1242 and 1318 there is a run of five intercalary mean Asvina months.

In eleven instances the names of the mean intercalary months given in Table LXXVI differ from those stated in the *Indian Calendar*. These differences are due to the former calculations having been based on Professor Jacobi's earliest Tables published 35 years ago, while the present ones agree with the results of calculation made by his more recent elementary fixtures. Each difference is specially noted at foot of Table LXXVI.

¹ The equations of sun and moon are not taken into account in mean reckening.

The nakshatra.

308. In the mean system the position at any moment of the mean moon in the ecliptic circle, i.e., the mean moon's nakshatra, is found by adding her mean distance from the mean sun to the latter's longitude; that is to say, by adding to the value of "s" (the mean sun's longitude) the value of "a" at the same moment as found by calculation for the mean tithi. All work by the Tables being in the first instance for the mean positions of sun and moon at mean sunrise of any day, Table LXXX provides the sun's mean long. (s) in 10,000ths of the circle, for each period of 24-hours measured from the moment of mean Mēsha-samkrānti, while Table LXXXI states the same increase for fractions of the day. To obtain the value of "s" for mean sunrise of any day it is necessary to note first its value after the interval of days between the day of Mēsha-samkrānti and the given day (Table LXXX), and, since that value is measured from the moment of Mēsha-samkrānti and not from mean sunrise, afterwards to deduct from the value so obtained the increase during that fraction of the day (Table LXXXI). The result is the required "s", or the mean sun's long, at mean sunrise of the given day. Then s+a=n, the nakshatra index required, or the mean moon's place in the ecliptic circle at mean sunrise of that day.

The Rule for work, then, is as follows. Find the value of a = t, the mean tithi-index at mean sunrise of the given day (Example 2 below). Note the serial number of the day as measured from Jan. 1. Deduct from this the serial number of the day of mean Mēsha-sainkrānti (Table LXXVI, col. 13, in brackets). This gives the number of intervening days. Turn to Table LXXX and note the value of "s" against that interval of days. Deduct from this the mean sun's movement given in Table LXXXI during the hours and minutes stated in Table LXXVI, col. 17. The result is the required value of "s" at mean sunrise of the given day. Add s to a. This = n, the required nakshatra-index. Table LXVIII above, or Table VIII, Indian Calendar, gives the name of the nakshatra.

The Tables.

309. Table LXXVI corresponds to Table I Indian Calendar in formation and is to be used in the same way. Here the value of "a" is the value of "t". It gives the tithi-index direct without further calculation.

Table LXXVII shows the duration and collective duration of mean solar months, and the increase in the moon's phase, "a", during each such month.

Table LXXVIII gives the value of "a" at the beginning of each Kaliyuga century.

Table LXXIX corresponds, with a necessary shift of position, to Table LXXIV above, the use of which is fully explained in my former paper, 301.

Tables LXXVIII and LXXIX, with Table LXXIII above (under heading "a"), which gives the value of "a" at the beginning of each year of the Kaliyuga century, enable us to find the value of "a" at mean sunrise of the civil day Chaitra sukla I at the beginning of each lunisolar year. Tables LXXVIII and LXXIII yield the value of "a" at mean sunrise of the day on

[&]quot;To find the value of "a", or "f", i.e., the exact moon's phase, in 10,000ths of the circle, at any moment of any day, note its value at mean sunrise of the first civil day of the luni-solar year, as given in Table LXXVI (col. 23), and add its value for intervening days, hours, etc. (Tables LXIV, LXV under heading "a").

which mean Mesha-sankranti occurred; and Table LXXIX enables, by addition, the "a" for the interval of days between that day and the day Chaitra sukla 1 to be ascertained. [The same can be found by subtracting from the sum of the values obtained from Tables LXXVIII and LXXIII (col. a) the value for those intervening days given in Table LXIV above (see Example 1).]

The use of Tables LXXX and LXXXI is explained above (§ 308). They correspond mutatis mutandis, with Tables XLVIII A, XLIX above used in calculation for the sun's true longitude.

310. The century-Table LXXVIII requires some further explanation. Its object is to determine the mean moon's phase, "a", at mean sunrise of the opening civil day of each Kaliyuga century, i.e., the day on which mean Mesha-samkranti occurred at some time later on that day. Reference to Table LXXVI shews that this opening day occurred at the beginnings of centuries 36 and 37 K.Y. on a Sunday, and in centuries 38 to 45 on a Saturday. From Table I, Indian Calendar, by adding the sodhya interval (above, § 306, viii) to the date and time there given for the moment of true Mesha-samkranti, we find that in centuries 46 to 48 it fell on a Friday. In the mean system, therefore, centuries 37 and 45 were defective centuries, while the rest were common.

Table LXXVIII corresponds to Table LXXII above, which concerns true solar years, and by the true system, i.e., calculation by the movements of true sun, the only defective century was century 42. This accounts for the difference between the two Tables.

It has been shewn above (§ 299, i) that the actual value of " a" at mean sunrise of Sunday, 21 March A.D. 499, on which day, 6 hours later, occurred the moment of mean Mesha-samkranti (mean sun at 0°) at the beginning of Kaliyuga century 36, was, in notation in 10,000ths of the circle, 7715-352496330. The values of a for later century-beginnings are found by addition to this of the century increases of a, common and defective as required.

EXAMPLES.

Example I. To find the European day, week-day, and phase of mean moon, i.e., the mean tithi-index "a" (which = "t", the true moon's index) at mean sunrise of the first civit day of the luni-solar year; that is to say, of the day called "Chaitra sukla I" of the year in question.

[This example is given in order to enable any student to verify the entries in Table LXXVI, cols. 19-23. For ordinary date work the entries themselves afford all information]

The mean new moon which marks the astronomical beginning of any mean lunar year is the new moon at the end of the lunar month Phälguna of the previous year. The moment of its occurrence is always earlier than the moment in the current year of mean Mésha-samkranti, the beginning of the mean solar year. The civil day next following the moment of the initial mean new moon of the year is called "Chaitra sukla I," that tithi being current at mean sunrise of that civil day. Our tabular calculations being for mean sunrise, the value of "a" in Table LXXVI, col. 23, must always be between 0 and 333.3, the last being the limit of the tithi.

To find its value for any year we must first calculate the value of "a" at mean sunrise on the day of occurrence of mean Mesha-samkranti from Tables LXXVIII and LXXIII (above) under heading "a".

This done there are two processes by which the mean sunrise value of "a" on the day Chaitra sukla 1 can be obtained. One is to use Table LXIV, which, by deducting from the "a" of mean Mēsha-sankrānti-day mean sunrise (arready found) the next lower value of "a" in the Table as given for the first 30 days, yields at once the interval of days between Chaitra sukla 1 and

Mesh a-samkranti, the value of "a" at mean sunrise of the former, and the required week-day. The second process is, using Table LXXIX, to find such earlier day as by adding its "a" to the " a" of Mësha-sarikranti, already found, will yield a result between 0 and 333-3. The Table than shows the interval of days between the two sunrises, and the week-day corresponding to Chaitra sukla 1.

A. Take for instance the year K.Y. 3725 expired, A.D. 624-25, Mean Mesha-samkranti occurred in that year (Table LXXVI, cols. 13-17) on Wed, 21 Mar., -serial day 81, from Jan. 1. We take the value of "a" at mean sunrise at the beginning of the Kaliyuga century and at the beginning of the expired year from Tables LXXVIII and LXXIII, respectively. The result gives the value of "a" at mean sunrise of Mesha-samkranti day in the given year.

	w-d.	a.	
(Table LXXVIII). K.Y. cent. 37	(1)	6583-1816	
(Table LXXIII above). K.Y. year 25	(3)	2047-6413	
At mean sunrise on Wed. 21 Mar., the day of occur- rence of mean Mesha-samkranti	(4)	8630-8229	
Process 1.			
(Table LXIV above). Next lower value of "a" in the first 30 days of the Table, i.e., that for 25 days	-(4)	-8465:7968	
At mean sunrise of the day Chaitra sukla 1	(0)	165-0261	
This Chaitra sukla 1 civil day was (81-25=) Day 56, or (To LXIX above) Sat. 25 Feb. A.D. 624.	ible II	X, Indian Calendar, or	
Process 2.	w-d.	a,	
At mean sunrise on Wed. 21 Mar., the day of mean			
Mêsha-samkrânti (as above)	(4)	8630-8229	
(Table LXXIX). The only value of "a" which yields result between 0 and 333.3	+(3)	+1534-2032	
At mean sunrise of the day Chaitra sukla 1	(0)	165-0261	

Table LXXIX shews that the interval of days was 25, and the result is in all respects the same as the former.

B. Calculation for the mean sunrise value of "a" on the day of mean Mēsha-samkrānti, the first step shewn in the above, by use of Tables LXXVIII and LXXIII often results in the day found being not the actual day on which Mēsha-samkrānti took place but the day next to it. This is inevitable, seeing that only one Table has to stand for the odd years of all centuries. In such case the necessary adjustment must be made for one day's difference. The entries in Table LXXVI, cols. 13 to 17, are conclusive as to the actual day.

Take the year A.D. 625-26, K.Y. 3726 expired. In that year mean Mesha-samkranti occurred on Thurs, 21 Mar., serial day 80.

(Table LXXVIII). K.Y. century 37	١.		w-d. (1)	a. 6583·1816
(Table LXXIII). K.Y. year 26			(5)	5986-9072
At mean sunrise of Friday, 22 Mar			(6)	2570.0888
Deduct value for one day (Table LXIV) .			-(1)	-338-6319
At m. sunrise of Thurs. 21 Mar, the day	of	mean		
Mesha-samkranti			(5)	2231.4569

For the "a" of Chaitra sukla 1 and its day and week-day we use either of the two processes.

Process 1	w-d.	a.
At m. sunrise of m. M. Sday, Thurs. 21 Mar.	(5)	2231-4569
(Table LXIV above). Next lower value of "a" in the first 30 days of the Table, viz., for 6 days' interval.	-(6)	-2031-7912
At mean sunrise of Fri. 15 Mar., being the day Chaitra		
šukla 1	(6)	199-6657
Or, Process 2.	w-d.	a
At m. sunrise of m. Mēsha-saink. day (as above) .	(5)	2231-4569
Add (Table LXXIX for 6 days earlier) , .	+(1)	$+7968 \cdot 2088$
Result (same as above)	(6)	199:6657
	-	

Example 2. To find the mean tithi-index "a" for any day in the year, or any moment of any day.

Table LXXVI, cols. 19-23, states the civil day, Chaitra sukla 1, for each year, its serial number from Jan. 1, its week-day, and its tithi-index "a" at mean sunrise. Calculate, from Table III Indian Calendar or Table LXIII above, the interval of whole days to mean sunrise on the given day, and, if necessary, the fraction of day subsequent to that sunrise. Add the increment of "a" for whole days from Table LXIV, and for fractions of the day from Table LXV, to the "a" given in Table LXXVI.

Whole numbers may always be used for whole days, the decimals being only resorted to for close cases and when the calculation includes a fraction of a day.

E.g. Required the tithi-index at mean sunrise on Ashādha šukla 4 in the year corresponding to A.D. 625-26; and at 8^h 20^m 15^s after m. sunrise on that day.

Day 165 was (Table IX, Indian Calendar, or Table LXIX above) 14 June A.D. 625. (6)=Friday. a=1015 shews (Table VIII or LXVIII) that sukla 4 was current at mean sunrise of that day.

For the specific hour mentioned—						a.
At mean sunrise on that day	387		76	19		1015-1662
(Table LXV)					- 8h	112.8773
					20m	4.7032
					15*	0.0588
At 8 ^h 20 ^m 15 ^s after mean sunris	е	*			a==	1132-8055

Example 3. To find "a" (the tithi-index, or phase of mean moon) at each of the solar samkrantis in the year (the moments of the mean sun's entrance into the several signs), and to determine whether an intercalation of a lunar month took place during the year.

Table LXXVI, cols. 13, 14, 17, shews the day and time of occurrence of mean Mēshasaihkrānti (mean sun at long. 0°) in each year, and Example 1 shews how to find the value of "a" at mean sunrise of that day. To that value must be added from Table LXV the increment of "a" during the interval from mean sunrise to moment of sankrānti. The advance of "a" during each mean solar month, i.e., from each mean sankrānti to the next (Table LXXVII) is 307·3526. The work may be carried out by use of whole numbers, except when a case is very close. This occurs when a waning moon is very near 10,000, or when a waxing moon is very near 0.

Required the above details for the years noted in Examples 1, 2, viz. A.D. 624-5 and 625-6. In A.D. 624-25 mean Mesha-samkranti took place 14^h 2^m 30^s after mean sunrise. In A.D. 625-26 it took place 20^h 15^m 0^s after mean sunrise (*Table LXXVI*, cols. 13-17).

A.D. 624-25. Value of "	a" at m. sur	rise (on mes	an Me	shn-si	am-	a.
krānti-day, as alres	dy found (E	xamp	le 1)	-			8630-8229
(Table LXV). Increase	of "a" in 14	h				100	197:5353
Ditto	2m	40	14	112	14	11/4/3	0.4703
Ditto	30*			*		100	0.1176
Exact value of "a" at m	oment of me	n M	šshn-s	mkri	intí		8828-9461
A.D. 625-26. Value of "	a " at m. su	nrise	of me	an Mi	ishn-s	am-	13.00
krānti-day as found	d						2231-4569
(Table LXV). Increase	of "a" in 2()tı				24.3	282-1932
Ditto	15 ^m		*	-		7	3.5274
Exact value of "a" at m	oment of mer	n Me	sha-sa	mkri	inti		2517-1775

For the several samkrantis in each year we work here roughly with whole numbers only, adding successively the increase of o in 1 solar month.

	A	.D. 624-25			13	A.D.	625-26
At Mësha-sainkr		a=8829 307		7		1,0	2517 307
At Vrishabha-samkr.	4	. 9136 307			4		2824 307
At Mithuna-samkr.	9	. 9443 307	å	3.56	9		3131 307
At Karka-samkr		. 9750 307		t		1.50	3438 307
At Simha-samkr	,	. 10,057 etc				595)	3745 etc.

In A.D. 624-25 it is seen that the mean moon was waning at the Karka-samkrārti and waxing at the Simha-samkrānti, proving an intercaintion of a lunar month, which month (see Table LXX VII, col I) was Śrāvaṇa. Actually "a" at Simha-samkrānti was 58:36.

In A.D. 625-26 the small value of a at the moment of Mēsha-samkrānti shews that there could have been no intercalation in that year (see above, § 306, xi).

Example 4. To find the mean moon's nakshatra, or her place in the ecliptic circle at any moment.

(See § 308 above.) We have to find the value of "s", the sun's mean long., at the given moment and the value at the same moment of "a", the index of the mean tithi. s + a = n, the index of the nakshatra. I assume that, as usual, the values wanted are those at mean sunrise on the given day; for later moments they can easily be found, from Table LXV for "a", and from Table LXXXI for "s". The example here given will shew the process of work.

Required the nakshatra at mean sunrise on the day referred to in Example 2, viz. Ashādha sukla 4 in K.Y. 3726, which was proved to be 14 June A.D. 625, and on which day at mean sunrise the value of "a" was found to be 1015·1662. The day, measured from Jan. 1, was serial number 165. In that year mean Mēsha-samkrānti took place (Table LXXVI) on Day 80 at 20h 15m after mean sunrise. The interval of whole days between 20h 15m after mean sunrise on the day of Mēsha-samkrānti and 20h 15m after mean sunrise on the given day is (165-80=) 85.

4.0				(Fe)
8				2327-1179
. 22.8	149			
. 0.2	852			
23.1	001			-23:1001
šuk. 4, "	s" =			2304:0178
nrise .	*	• 7	٠	1015-1662
une) " s "	= .	v)		3319-1840
	22.8 . 0.2 23.1 s šuk. 4, ". nrise .	. 22·8149 . 0·2852 23·1001 a śuk. 4, "s" =	22:8149 0:2852 23:1001 siuk. 4, "s" = nrise	22·8149 . 0·2852 23·1001

Table VIII Indian Calendar, or Table LXVIII above, shews that the moon was then in the nakshatra Aśleshā by the equal-space system and by Garga, but in Maghā by the Brahma Siddhānta.¹

The value of "a", 3319-1840, in 10,000ths of the circle, can be converted into degrees, if required, by Table XLV B, above. It = 119° 29′ 26″. That was the mean moon's place.

Example 5. The lagna. (See Indian Chronography, § 193, p. 74, and Example 63, p. 127.) Required to ascertain at what hour on the day Āshādha śuk 4 K Y. 3726, or 14 June A.D. 625, the sign Tulā became lagna.

At mean suurise the sun's mean long. "s" was (Example 4) 2304-0178, roughly (Table XLV above) 82° 57′. The first point of Tulā (Libra) (Indian Chronography, Table XXII) is 189° 180° - 82° 57′ = 97′ 3′. 97° × 4 = 388^m, or 6^h 28^m, 3′ × 4 = 12°. The first point of Tulā, therefore, was lagna at 6^h 28^m 12° after mean sunrise on the day in question. It lasted for 2 hours, when Vrišchika (Scorpio) became lagna.

As to these systems see Indian Calendar § 38 p. 21; Indian Chronography § 112, etc.

TABLE

MEAN SYSTEM TABLE,

Numbers of columns conform

(Cols. 1 to 4.)—The years herein stated are the current years corresponding (Cols. 6 and 7.)—Samvatsara-names of mean solar years in italics shew where

			EAR.	URRENT Y	CONC				1
Mean Intercalated (adhika) lunar		VATSARA.	JOVIAN BA			r year	rama.		
month.		Northern system.	Southern system.	A.D.	Kollam.	Chaitradi Vikrama. Méshadi solar yua in Bengal.		Saka.	Kali.
8a		7	6	5	4	3a	3	2	1
9 Mārgašira .		in.	9 Yu	499-500			557	422	3601
***		* 1	10 Dh	*500-01			558	423	C-1/2000000000000000000000000000000000000
4	0	50 IV	11 Īśv	501-02			559	424	3602
5 Śrāvaņa .				502-03				170	3603
	*		12 Dai	503-04			560	425	2604
***	-		and the second second		1		561	426	2605
2 Vaišākha	1		14 Vil	*504-05			562	427	3600
SEA MANAGEMENT			15 Vri	505-06	1000		563	428	3607
		abhānu ,		506-07			564	429	3608
10 Pausha .	3		17 Sul	507-08			565	430	3609
***	-		18 Ta	*508-09	1	1.00	566	431	3610
***			19 Pä:	509-10			567	432	3611
7 Asvina .			20 Vy	510-11	18.94		568	433	3612
***	- 2	ajit	21 Sar	511-12	100		509	434	3613
***		adhāvin .	22 Sat	*512-13			570	435	3614
3 Jyështha .		ihin	23 Vir	513-14			571	436	3615
***		ta	24 Vil	514-15	II.		572	437	3616
12 Phälguna .		TR 4 745	25 Kh	515-16	1		573	438	3617
***		lana	26 Na	*516-17			574	439	3618
***		· .	27 Vij	517-18			575	440	3678
8 Kärttika .			28 Jay	518-19			576	441	3520

LXXVI.

FIRST ARYA SIDDHANTA.

to Table I, "Indian Calendar."

to the A.D. years in col. 5; as in Table I, "Indian Calendar."

differences exist from Surya Siddhanta nomenclature in true solar years.

1 Arya Siddhānta, mean system.

	2									
Kali year	MEAN SOLAR YEAR. MEAN LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SURLA I ENDS).									
	a (here=t, the index of the tithi).	lay.	Week-d	Day and month, A.D.	Time of mean Mesha- sanikränti.	Week-day.	y and month, Week-day			
1	23		20	19	17	14		13		
3601	265-4513		0 Sat.	27 Feb. (58) .	H. M. S.	1 Sun		Dr. W (00)		
3602	300-0909	91	6 Fri.	17 Mar. (77)	12 12 30	2 Mon.		21 Mar. (80) .		
3603	175-7743		3 Tues.	6 Mar. (65) .	18 25 0	3 Tues.	A.	20 Mar. (80) . 20 Mar. (79) .		
3604	51-4577		0 Sat.	23 Feb. (54) *.	0 37 30	5 Thur.		21 Mar. (80) .		
3605	86-0973		6 Fri.	14 Mar. (73) .	6 50 0	6 Fri.		21 Mar. (80) .		
3606	300-4125		4 Wed.	3 Mar. (63) .	13 2 30	0 Sat.		20 Mar. (80) .		
3607	176-0959		1 Sun.	20 Feb. (51) .	19 15 0	1 Sun.		20 Mar. (79) .		
3608	110-7356		0 Sat.	11 Mar. (70) ,	1 27 30	3 Tues		21 Mar. (80) .		
3609	86-4189		4 Wed.	28 Feb. (59) .	7 40 0	4 Wed.		21 Mar. (80) .		
3610	121-0586		3 Tues.	18 Mar. (78) .	13 52 30	5 Thur	3	20 Mar. (80) .		
3611	9996-7419†		0 Sat.	7 Mar. (66) .	20- 5 0	6 Fri		20 Mar. (79) .		
3612	211-0572	2.	5 Thur.	25 Feb. (56) .	2 17 30	1 Sun		21 Mar. (80) .		
3613	245-6968		4 Wed.	16 Mar. (75) .	8 30 0	2 Mon		21 Mar. (80) .		
3614	121-3802	-	1 Sun.	4 Mar. (64) .	14 42 30	3 Tues	-5	20 Mar. (80) .		
3615	9997-0635†	74	5 Thur.	21 Feb. (52)	20 55 0	4 Wed		20 Mar. (79) .		
3616	31-7031	- 2	4 Wed.	12 Mar. (71) .	3 7 30	6 Fri		21 Mar. (80) .		
3617	246-0185		2 Mon.	2 Mar. (61) .	9 20 0	0 Sat		21 Mar. (80) .		
2618	280-6581	12	1 Sun.	20 Mar. (80) .	15 32 30	1 San	- 2	20 Mar. (80) .		
3619	156-3414		5 Thur.	9 Mar. (68) .	21 45 0	2 Mon		20 Mar. (79) .		
3620	32-0248	4	2 Mon.	26 Feb. (57) .	9 57 30	4 Wed.		21 Mar. (80) .		

[†] As a mean tithi Chaitra Sukla I was suppressed. The civil day corresponding to it, i,c., the first day of the mean luni-solar year, was as given in cols. 19, 20,

TABLE

			RENT YEAR	CONCURI				
Mean Intercalated (adhika) lunar month.	Jovian Samvatsara. Southern Northern system.		A.D.	Kollam.	Meshadi solar year in Bengal.	Chaitradi Vikrama.	Saka.	Kali.
8a	7	6	5	4	3a	3	2	1
5 Srāvaņa 1 Chaitra 10 Pausha 7 Āšvina 3 Jyčshiha 12 Phālguna	unatha	31 Hei 32 Vili 33 Vik 34 Sår 35 Pla 36 Sut 37 Sol 38 Kri 39 Vis 40 Pas 41 Pla 42 Kil 43 Sar 44 Sår 45 Vir 46 Par	519-20 *520-21 521-22 522-23 523-24 *524-25 525-26 526-27 *527-28 *528-29 529-30 530-31 531-32 *532-33 533-34 534-35 535-36 *536-37			577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593	442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459	3621 3622 3623 3624 3625 3626 3627 3628 3630 3631 3632 3633 3634 3635 3636 3637 3638
8 Kärttika	mādin	47 Pri	537-38			595	460	3639
	kshasa		538-39 539-40			596 597	461	3640
5 Srāvaņa	STATE OF THE STATE	50 An	*540-41			598	463	3642
***	gala	51 Pis	541-42			599	464	3643
***	layukta	52 Kā	542-43			600	465	3644
1 Chaitre .	dhārthin	53 Sid	543-44	1 (3)		601	466	3645

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1 Árya Siddhānta, mean system.

			co	ММ	ENC	EME	NT OF THE				
Mean solar year Mean luni-solar year (mean sunrise of civil day on which Chaitra Sukla 1 ends).											Kali year.
Da	y and moni	th,	Week-day.	me	Time ean M imkri	ēsha-	Day and month, A.D.			a (here=t, the index of the tithi).	
	13		14		17		19	20		23	1
				H	. M.	S.					
21 1	Mar. (80) .	٠	5 Thur	10	10	0	17 Mar. (76) .	1 Sun.		66-6644	3621
20 1	Mar. (80) .	•	6 Fri	-16	22	30	6 Mar. (66) .	6 Fri.		280-9797	3622
	far. (79) .		0 Sat	22	35	0	23 Feb. (54) .	3 Tues.	•	156-6631	3623
21 M	far. (80) .	×	2 Mon	4	47	30	14 Mar. (73) .	2 Mon.		191-3027	3624
21 M	far. (80) .	٠	3 Tues	11	0	0	3 Mar. (62) .	6 Fri.	247	66-9860	3625
20 M	far. (80) .		4 Wed	17	12	30	21 Feb. (52) .	4 Wed.	14.	281-3013	3626
20 1	far. (79) .		5 Thur	23	25	0	11 Mar. (70) .	3 Tues.	-	315-9409	3627
21 M	far. (80) .	ě	0 Sat	5	37	30	28 Feb. (59) .	0 Sat.	12	191-6243	3628
21 M	far. (80) .		1 Sun. ,	11	50	0	19 Mar. (78) .	6 Fri.		226-2640	3629
20 M	far. (80) .	7	2 Mon	18	2	30	7 Mar. (67)	3 Tues.		101-9473	3630
21 M	far. (80) .		4 Wed.	0	15	0	25 Feb. (56) .	1 Sun.	74	316-2626	3631
21 M	lar. (80) .		5 Thur	6	27	30	15 Mar. (74) .	6 Fri.		12-2703	3632
21 M	far. (80) .		6 Fri	12	40	0	5 Mar. (64) .	4 Wed		226-5856	3633
20 M	ar. (80) .	(0)	0 Sat	18	52	30	22 Feb. (53) .	I Sun.		102-2690	3634
21 M	ar. (80) .		2 Mon.	1	5	0	12 Mar. (71) .	0 Sat.		136-9086	3635
21 M	ar. (80) .		3 Tues	7	17	30	1 Mar. (60) .	4 Wed.		12-5920	3836
21 M	ar. (80) .	(4)	4 Wed	13	30	0	20 Mar. (79) .	3 Tues.		47-2316	3637
20 M	ar. (80) .	160	5 Thur	19	42	30	9 Mar. (69) .	1 Sun.		261-5469	3638
21 M	ar. (80) .		0 Sat	1	55	0	26 Feb. (57) .	5 Thur.		137-2303	3659
21 M	ar. (80) .	3	1 Sun	8	7	30	17 Mar. (76) .	4 Wed.		171-8699	3640
21 M	ar. (80) .		2 Mon	14	20	. 0	6 Mar. (65) .	1 Sun.		47-5533	3641
20 M	ar. (80) .	3	3 Tues	20	32	30	24 Feb. (55) .	6 Fri.		261-8686	3642
21 M	ar. (80) .		5 Thur	2	45	0	14 Mar. (73) .	5 Thur.		296-5082	3643
21 M	ar. (80) .		6 Fri	8	57	30	3 Mar. (62) .	2 Mon.	2/	172-1916	3614
21 M	ar. (80) .		0 Sat	15	10	0	20 Feb. (51) .	6 Fri.		47-8749	3645

		vi i	EAR.	RRENT Y	CONCU				
Mean Intercalated (adhika) lunar month.	Northern system.	Jovian san		A.D.	Kotlam.	Meshādi solar year in Bengal.	Chaîtrăcii Vikrama.	Saka.	Kali
8a	7	6		.5	4	3a	3	2	.1
10 Pausha 6 Bhādrapada 3 Jyēshtha 11 Māgha 8 Kārttika 4 Āshādha	mati	58 Rak 59 Kro 60 Ksh 1 Prai 2 Vibi 3 Suk 4 Prai 5 Praj 6 Ang 7 Srin 8 Bhā 9 Yuv 10 Dhā 11 Išva		*544-45 545-46 546-47 547-48 *548-49 549-50 550-51 551-52 *552-53 553-54 554-55 555-56 *556-57 557-58 558-59 559-60 *560-61 561-62			602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618	487 488 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484	3646 3647 3648 3649 3650 3651 3652 3653 3654 3655 3656 3657 3658 3659 3660 3661 3662 3663
1 Chaitra	udhānya			562-63 563-64	1		620 621	486	3664 3665
10 Pausha .		15 Vris		*564-65 565-66			622 623	487 488	3666
100	Linu	17 Subl		566-67			624	489	3658
6 Bhādrapada.	iya	18 Târa 19 Părt		567-68 *568-69			625 626	490	3869

[†] By the First Arya Siddhanta mean system 14 Vikrama was expunged, and A.D. 564-65 corresponded to 15 Vrisha. By the same authority true system A.D. 564-65 corresponded to 14 Vikrama, and 15 Vrisha was expunged. A.D. 565-66 was 16 Chitrabhanu by both systems.

1 Årya Siddhänta, mean system.

Mu	AN S	OLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHICE			Kali yeat
Day and mont	h,	Week-day.	Time of mean Metha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13		14	17	19	20	23	1
20 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 20 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) .		1 Sun	H. M. S. 21 22 30 3 35 0 9 47 30 16 0 0 22 12 30 4 25 0 10 37 30 16 50 0 23 2 30 5 15 0 11 27 30 17 40 0 23 52 30 6 5 0	10 Mar. (70) . 28 Feb. (59) . 19 Mar. (78) . 8 Mar. (67) . 25 Feb. (56) . 15 Mar. (74) . 5 Mar. (64) . 22 Feb. (53) . 12 Mar. (72) . 1 Mar. (60) . 20 Mar. (79) . 9 Mar. (68) . 27 Feb. (58) .	5 Thur	82:5145 296:8298 331:4694 207:1528 82:8361 117:4757 331:7910 207:4744 242:1140 117:7974 152:4370 28:1204 242:4357 27:0753	3646 3647 3648 3649 3650 3651 3652 3653 3654 3655 3656 3657 3658
21 Mar. (80) . 21 Mar. (80) .		5 Thur	12 17 30 18 30 0	6 Mar. (65) . 23 Feb. (54) .	4 Wed	152-7587 28-4421	3660 3661
21 Mar. (81) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (80) . 21 Mar. (81) . 21 Mar. (80) . 21 Mar. (80) .		1 Sun	0 42 30 6 55 0 13 7 30 19 20 0 1 32 30 7 45 0 13 57 30 20 10 0		0 Sat	63-0817 277-3970 153-0803 187-7200 63-4034 98-0430 312-3582 188-0416	3662 3663 3664 3665 3666 3667 3668 3669

TABLE

			YE	RRENT Y	CONCURRENT YEAR.												
Mean Interculated (adhika) luna month.	Southern Northern system.			A.D.	Kollam.	Mëshidi solar year in Bengal.	Chaitradi Vikrama.	Šaka.	Kali.								
8a	7	6		-5	4	3a	3	2	1								
***	ya	20 Vys	70	569-70	17.11		627	492	3671								
3 Jyeshtha	vajit	21 Sar	71	570-71	CHE !		628	493	3672								
344	vadhārin	22 Sar	72	571-72	1		629	494	3673								
11 Mågha	Sdhin		73	*572-73	100		630	495	3674								
	jita	24 Vik	74	573-74	101		631	496	3675								
***	ira	25 Kh	75	574-75		10	632	497	3676								
8 Kārttika	dana	26 Nan	76	575-76			633	498	3677								
***	уа	27 Vija	77	*576-77	-71		634	499	3678								
		28 Jay	78	577-78			635	500	3679								
4 Āshāḍha	matha	29 Man	79	578-79	MIN		636	501	3680								
	mukha	30 Dur	80	579-80	- 10		637	502	3681								
***	aalamba	31 Hēn	81	*580-81	100		638	503	3682								
I Chaitra	mba	32 Vila	82	581-82	- 11		639	504	3683								
266	irin	33 Viki	83	582-83	45.9		640	505	3684								
9 Märgaiira	arin	34 Sarv	84	583-84	2 7 1		641	506	3685								
in the state of th	a	35 Play	85	*584-85	100	U	642	507	3686								
	ankrit	36 Subl	86	585-86		300	643	508	3687								
6 Bhādrapada	ana	37 Söbl	37	586-87	1001		644	509	3688								
		38 Krö	88	587-88	-31		645	510	3689								
***		39 Viáv	4	*588-89	7		646	511	3690								
2 Vaišākha .		40 Pari		589-90	- 6	i	647	512	3691								
***		41 Play		590-91	Ave d		648	513	3692								
11 Magian .	ARREST DE LOCA	42 Kilai		591-92			849	514	3693								
	No 100 S 1 S	43 Saun		*592-93	-		650	515	3694								
		44 Sādh		593-94	-		651	516	3695								

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1 Arya Siddhanta, mean system.

	co	MMENCEME	NT OF THE			
MEAN	SOLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC			Kali year.
Day and month,	Week-day.	Time of mean Mēsha- samkrānti.	Day and month,	Week-day.	σ (here—t, the index of the tithi).	
13	14	17	19	20	23	1
21 Mar. (80)	5 Thur 6 Fri 0 Sat 2 Mon 3 Tues 4 Wed 5 Thur 0 Sat 1 Sun 2 Mon 3 Tues 5 Thur 6 Fri 6 Fri	H. M. S. 8 35 0 14 47 30 21 0 0 3 12 30 9 25 0 15 37 30 21 50 0 4 2 30 10 15 0 16 27 30 22 40 0 4 52 30 11 5 0	4 Mar. (63) . 22 Feb. (53) 12 Mar. (71) . 1 Mar. (61) . 20 Mar. (79) . 9 Mar. (68) . 26 Feb. (57) . 16 Mar. (76) . 6 Mar. (65) . 23 Feb. (54) . 14 Mar. (73) . 2 Mar. (62) .	2 Mon 0 Sat 5 Thur 3 Tues 2 Mon 6 Fri 3 Tues 2 Mon 4 Wed 3 Tues 0 Sat 5 Thur	98-3646 312-6799 8-6876 223-0029 257-6425 133-3259 9-0092 43-6488 257-9641 133-6476 168-2871 43-9705 258-2857	3671 3672 3673 3674 3675 3676 3677 3678 3679 3680 3681 3682 3683
21 Mar. (80)	0 Sat	17 17 30 23 30 0 5 42 30 11 55 0 18 7 30 0 20 0 6 32 30 12 45 0 18 57 30 1 10 0 7 22 30 13 35 0	11 Mar. (70) . 28 Feb. (59) . 18 Mar. (78) . 7 Mar. (66) . 25 Feb. (56) . 16 Mar. (75) . 4 Mar. (64) . 21 Feb. (52) . 12 Mar. (71) . 2 Mar. (61) . 19 Mar. (79) .	4 Wed	292-9254 168-6087 203-2484 78-9317 293-2470 327-8867 293-5700 79-2534 113-8930 328-2083 24-2160 238-5313	3684 3685 3686 3687 3688 3689 3690 3691 3692 3693 2694 3396

TABLE

				CONCUR	RENT YEA	IR.			
		krama-	ar year			Jovian sa	MVATSARA.		Mean Intercalated (adhika) lunar
Kali.	Saka.	Chaitradi Vikrama.	Mëshadi nolar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.		month.
1	2	3	3a	4	5	6	7		86]
3696	517	652	1	.4.1	594-95	45 Vi	rödhakrit .	2	7 Asvina
3697	518	653	2	De la	595-96	46 Pa	ridhāvin .	4	
3698	519	654	3		*596-97	47 Pr	amādin .	29	***
3699	520	655	4	400	597-98	48 Å	nanda	-	4 Áshādha
3700	521	656	5	DO I D	598-99	49 R	ākshasa	3.5	2000
3701	522	657	6	100	599-600	50 A	nala		12 Phälguna
3702	523	658	7	1000	*600-01	51 Pi	ágala		
3703	524	659	8	1000	601-02	52 K	álayukta .	100	0
3704	525	660	9	100	602-03	53 Si	ddhārthin .	268	9 Mārgašira
3705	526	661	10		603-04	54 R	andra	300	944
3706	527	662	11		*604-05	55 D	urmati		
3707	528	663	12		605-06	56 D	undubhi .		6 Bhādrapad
3708	529	664	13		606-07	57 R	udhirödgärin .		
3700	530	665	14		607-08	58 R	aktāksha .	2	***
3710	531	666	15		*608-09	59 K	rődhana .		2 Vaišākha
3711	532	667	16		609-10	60 K	shaya		1994)
3712	533	668	17		610-11	1 P	rabhava		11 Māgba
3713	534	669	18		611-12	2 V	ibhava	50	Common Co
3714	535	670	19		*612-13	3 8	ukla		***
3715	-	1000	20		613-14	4 P	ramôda		7 Asvina
3716			21	g = b	614-15	5 P	rajšpati		***
3717	538	1	-22		615-16	6 A	ngiras		
\$718	539	674	.25		*616-17	7 8	rimukha		4 Āshādha
3719		675	94		617-18	S I	thāva		***
3720	1 100	200	25		618-19	9 7	uvan		12 Phälguna

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I Ārya Siddhānta, mean system.

		co	MM	ENC	EME	NT OF THE			
MEA	AN I	SOLAR YEAR.				MEAN LUNI-SOLAR			Kali year-
Day and month A.D.	1.	Week-day.	me	lime an M mkri	ēsha	Day and month,	Week-day.	a (here=t, the index of the tithi).	
13		14	-	17		19	20	23	1
			H.	M.	8.	-			
21 Mar. (80) .		1 Sun	19	47	30	26 Feb. (57) .	6 Fri	114-2147	3695
22 Mar. (81) .		3 Tues	2	0	0	17 Mar. (76)	5 Thur	148-8543	3697
21 Mar. (81)		4 Wed	8	12	30	5 Mar. (65) .	2 Mon	24-5377	3698
21 Mar. (80) .	•	5 Thur	14	25	0	23 Feb. (54) ,	0 Sat	238-8530	3699
21 Mar. (80) .		6 Fri	20	37	30	14 Mar. (73) .	6 Fri	273-4926	3700
22 Mar. (81) .	12.0	1 Sun	2	50	0	3 Mar. (62) .	3 Tues	149-1760	3701
21 Mar. (81) .		2 Mon	9	2	30	21 Mar. (81) .	2 Mon	183-8156	3702
21 Mar. (80) .	•	3 Tues	15	15	0	10 Mar. (69) .	6 Fri.	59-4990	3703
21 Mar. (80) .	120	4 Wed: .	21	27	30	28 Feb. (59) .	4 Wed	273-8142	3704
22 Mar. (81) .	:0	6 Fri	3	40	0	19 Mar. (78) .	3 Tues	308-4539	3705
21 Mar. (81) .		0 Sat	9	52	30	7 Mar. (67) .	0 Sat	184-1373	3706
21 Mar. (80) .	04	1 Sun	16	5	0	24 Feb. (55) .	4 Wed	59-8207	3707
21 Mar. (80) .	11	2 Mon	22	17	30	15 Mar. (74) ,	3 Tues	94-4603	3708
22 Mar. (81) .		4 Wed	4	30	0	5 Mar. (64) .	1 Sun	308-7756	3709
21 Mar. (81) .		5 Thur	10	42	30	22 Feb. (53) .	5 Thur	184-4589	3710
21 Mar. (80) .	2	6 Fri	16	55	0	12 Mar. (71) ,	4 Wed	219-0085	3711
21 Mar. (80) .		0 Sat	23	7	30	1 Mar. (60)	1 Sun	94-7819	3712
22 Mar. (81) .		2 Mon	5	20	0	20 Mar. (79) .	0 Sat	129-4215	3713
21 Mar. (81) .		3 Tues	11	32	30	8 Mar. (68) .	4 Wed	5-1049	3714
21 Mar. (80) .		4 Wed	17	45	0	26 Feb. (57) .	2 Mon.	219-4201	3715
21 Mar. (80) .		5 Thur	23	17	30	17 Mar. (76) .	1 Sun	254-0597	3716
22 Mar. (81) .		0 Sat	6	10.	0	6 Mar. (65) .	5 Thur	129-7432	3717
21 Mar. (81) ,		1 Sun	12	22	30	23 Feb. (54) .	2 Mon	5-4266	3718
21 Mar. (80) .		2 Mon	18	35	0	13 Mar. (72) .	1 Sun.	40-068 P	3719
22 Mar 611.		4 Wed.	0	47	30	3 Mar. (62) .	6 Fri	254-3814	3720

TABLE

				CONCUR	RENT YE	AR.		
Kali.	Saka	Chaltradi Vikrama.	Meshadi solar year in Bengal.	Kollam.	A.D.	JOVIAN SA	MVATSARA.	Mean Intercalated (adhika) lunar month.
		Chalte	Měsbět in Be			system.	system.	36.3
1	2	3	34	4	5	6	7	8a
3721	542	677	26		619-20	10 D	hātri	
3722	543	678	27		*620-21	11 Té	vara	
3723	544	679	28	Ting!	621-22	12 B	ahudhanya	9 Mārgaáira .
3724	545	680	29	100	622-23	13 P	ramādin	144
3725	546	681	-30	100	623-24	14 V	ikrama	
3726	547	682	31		*624-25	15 V	risha	5 Srāvana .
3727	548	683	32		625-26	16 C	hitrabhānu	****
3728	549	684	33		626-27	17 S	abhānu	
3729	550	685	34	1676	627-28	18 T	āraņa	2 Vaišākha .
3730	551	686	35	- 400	*628-29	19 P	ārthiva	
3731	552	687	36	Liste	629-30	20 V	yaya	10 Pausha .
3732	553	688	37	1	630-31	21 S	arvajit	940
3733	554	689	38	A V	631-32	22 S	arvadhārin	
3734	555	690	39		*632-33	23 V	irōdhin	7 Asvina .
3735	556	691	40	100	633-34	24 V	ikrita	-
3736	557	692	41		634-35	25 K	Chara	
3737	558	693	42	-	635-36	26 N	Vandana	3 Jyeshtha .
3738	559	694	43	0	*636-37	27 V	ijaya	1000
3739	560	695	44		637-38	28 J	aya	12 Phälguna .
3740	561	696	45		638-39	29 3	fanmatha	
3741	562	697	46	100	639-40	30 1	Durmukha	(***)
3742	563	699	47	144	*640-41	31 1	Iĕmalamba	9 Mārgašira
3743	564	699	48	-	641-42	32 7	/ilamba	***
3744	565	700	49	40	642-43	33 V	ikārin	
3745	566	701	50		643-44	34 S	šrvarin	5 Śrāvana .

1 Ārya Siddhānta, mean system.

		cor	MEN	CEM	ŒN	T OF THE			
Ma	EAN	SOLAR YEAR.			The state of	MEAN LUNI-SOLAR CIVIL DAY ON WHICH			Kali year.
Day and mont	h.	Week-day.	mean	ne of n Méa krān	ha-	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13	П	14		17		19	20	23	1
	П		H.	M.	s.				1
22 Mar. (81) .		5 Thur	7	0	0	22 Mar. (81) .	5 Thur	289-0209	3721
21 Mar. (81) .		6 Fri	13	12	30	10 Mar. (70) .	2 Mon. ,	164-7044	3722
21 Mar. (80) .		0 Sat	19	25	0	27 Feb. (58) .	6 Fri	40-3877	3723
22 Mar. (81) .	ě	2 Mon	1	37	30	18 Mar. (77) .	5 Thur	75-0274	3724
22 Mar. (81) .	%	3 Tues	7	50	0	8 Mar. (67) .	3 Tues	289-3427	3725
21 Mar. (81) .	4	4 Wed	14	2	30	25 Feb. (56) .	0 Sat	165-0261	3726
21 Mar. (80) .	9	5 Thur	20	15	0	15 Mar. (74) .	6 Fri	199-6657	3727
22 Mar. (81) .	78	0 Sat	2	27	30	4 Mar. (63) .	3 Tues	75-3491	3728
22 Mar. (81) .		1 Sun	8	40	0	22 Feb. (53) .	1 Sun	289-6643	3729
21 Mar. (81) .		2 Mon	14	52	30	12 Mar. (72) .	0 Sat	324-3039	3730
21 Mar. (80) .	,	3 Tues	21	5	0	1 Mar. (60) .	4 Wed	199-9873	3731
22 Mar. (81) .	×	5 Thur	3	17	30	20 Mar. (79) .	3 Tues	234-6269	3732
22 Mar. (81) .	1	6 Fri	9	30	0	9 Mar. (68) .	0 Sat	110-3103	3733
21 Mar. (81) .		0 Sat	15	42	30	27 Feb. (58) .	5 Thur	324-6256	3734
21 Mar. (80) .		1 Sun	21	55	0	16 Mar. (75) .	3 Tues	20-6333	3735
22 Mar. (81) .		3 Tues	4	7 3	30	6 Mar. (65) .	1 Sun	234-9486	3736
22 Mar. (81) .	,	4 Wed	10	20	0	23 Feb. (54) .	5 Thur	110-6320	3737
21 Mar. (81) .		5 Thur	16	32 3	30	13 Mar. (73) .	4 Wed	145-2716	3738
21 Mar. (80) .		6 Fri	22	45	0	2 Mar. (61) .	1 Sun	20-9550	3739
22 Mar. (81) .		1 Sun.	4	57 :	30	21 Mar. (80) .	0 Sat	55-5946	3740
22 Mar. (81) .	12	2 Mon	11	10	0	11 Mar. (70) .	5 Thur	269-9099	3741
21 Mar. (81) .		3 Tues	17	22 3	30	28 Feb. (59) .	2 Mon	145-5933	3742
21 Mar. (80) .		4 Wed	23	35	0	18 Mar. (77) .	I Sun	180-2329	3743
22 Mar. (81) .		6 Fri		47 2	30	7 Mar. (66) .	5 Thur	58-9163	3744
22 Mar. (81) .		0 Sat	12		0	25 Feb. (56) .	3 Tues.	270 2316	3745

TABLE

				CONCUR	RENT YEA	R.		
Kali	Śaka.	Vikrama	solar year	Kollam,		JOVIAN SAI	IVATSARA.	Mean Intercalated (adhika) luna month.
IV BELL	Saga.	Chaitradi	Mēshādi sol in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	month.
1	2	3	3a	.4	5	6	7	8a
3746	567	702	51		*644-45	35 Pla	va	
3747	568	703	52	TE I	645-46	- Annual Contract	hakrit	
3748	569	704	53		646-47		hana	w ve efect to
3749	570	705	54	177	647-48	38 Kr		- 4.00000000
3750	571	706	55		*648-49	7,000,000	NAME OF THE PARTY	. 10 Pausha
3751	572	707	56		649-50	WEST,		
3752	573	708	57		650-51	42 Ki	i.e.	
87C3	574	709	58		651-52	43 Sai		7 Asyina
3754	575	710	59		*652-53	44 Sü	W-MANUEL CO.	***
3755	576	711	60		653-54	45 Vi	odhakrit .	
3758	577	712	61	1	654-55	46 Pa	ridhāvin .	. 3 Jyështha
3757	578	713	62		655-56	47 Pr	amādin .	
3708	579	714	63	153	*656-57	48 Ān	anda	. 12 Phälguna
3759	580	715	64		657-58	49 Rá	kehnea	
2760	581	716	65		658-59	50 An	nla	
2761	582	717	66		659-60	51 Pi	ngala	. 8 Kārttika
3762	583	718	67		*660-61	52 Ki	ilayukta .	
3763	584	719	68		661-62	53 Sic	ldhärthin .	, ,,,,
3784	585	720	69		662-63	54 Re	udra	. 5 Srāvans
3765	586	721	70	-4	663-64	55 Dt	ırmati	
3766	587	722	71	1	*664-65	56 D	mdubhi .	
3767	.588	723	72	-	665-66	57 Rt	ndhiródgárin .	. 1 Chaitra
3768	589	724	73		666-67	58 Re	ktāksha .	
3769	590	725	74	=	667-68	59 Kr	odhana .	. 10 Pausha
3770	591	716	75		*668-69	60 K	haya	

[†] By the mean system 41 Plavanga was expunded, as also by the true system.

LXXVI-Contd.

I Ärya Siddhänta, mean system .

		COL	MMENC	EME	NT OF THE			
M	EAN	SOLAB YEAR,		-	MEAN LUNI-SOLAR CIVIL DAY ON WHICE			Kali year.
Day and mont	h,	Week-day.	Time mean M samkr	fësha-	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13		14	17		19	20	23	1
21 Mar. (81) .		1 Sun	H. M		15 Mar. (75) .	2 Mon. ,	304-8711	3746
22 Mar. (81) .		3 Tues	0 25	0	4 Mar. (63) .	6 Fri.	180-5545	3747
22 Mar. (81) .		4 Wed	6 37	30	21 Feb. (52) .	3 Tues	56-2378	3748
22 Mar. (81) .		5 Thur	12 50	0	12 Mar. (71) .	2 Mon	90-8775	3749
21 Mar. (81) .	*	6 Fri	19 2	30	1 Mar. (61) .	0 Sat	305-1927	3750
22 Mar. (81) .	*	1 Sun	1 15	0	19 Mar. (78) .	5 Thur	1-2005	3751
22 Mar. (81) .		2 Mon	7 27	30	9 Mar. (68) .	3 Tues	215-5157	3752
22 Mar. (81) .	1	3 Tues	13 40	0	26 Feb. (57) .	0 Sat	91-1991	3753
21 Mar. (81) .		4 Wed	19 52	30	16 Mar. (76) .	6 Fri	125-8387	3754
22 Mar. (81) .		6 Fri	2 5	0	5 Mar. (64) .	3 Tues	1-5221	3755
22 Mar. (81) .		0 Sat	8 17	30	23 Feb. (54) .	1 Sun	215-8374	3756
22 Mar. (81) .	٠	1 Sun	14 30	0	14 Mar. (73) .	0 Sat	250-4770	3757
21 Mar. (81) .		2 Mon	20 42	30	2 Mar. (62) .	4 Wed	126-1604	3758
22 Mar. (81) .		4 Wed	2 55	0	21 Mar (80) .	3 Tues .	160-8000	3759
22 Mar. (81) .	8	5 Thur	9 7	30	10 Mar. (69) .	0 Sat.	36-4834	3760
22 Mar. (81) .	*	6 Fri	15 20	0	28 Feb. (59)	5 Thur	250-7987	3761
21 Mar. (81) .		0 Sat	21 32	30	18 Mar. (78) .	4 Wed	285-4383	3762
22 Mar. (81) .	4	2 Mon	3 45	0	7 Mar. (66) .	1 Sun	161-1217	3763
22 Mar. (81) .		3 Tues	9 57	30	24 Feb. (55) .	5 Thur	36-8051	3764
22 Mar. (81) .	16	4 Wed	16 10	0	15 Mar. (74) .	4 Wed.	71-4447	3765
21 Mar. (81) .	*	5 Thur	22 22	30	4 Mar. (64) .	2 Mon	285-7590	3766
22 Mar. (81) .		0 Sat	4 35	0	21 Feb. (52) .	6 Fri	181 4433	3767
22 Mar. (81) .		1 Sun.	10 47	30	12 Mar. (71) .	5 Thur, .	196-0830	3768
22 Mar. (81) .		2 Mon.	17 0	0	1 Mar. (60) .	2 Mon	71-7603	3769
21 Mar. (81) .		3 Tues	23 12	30	18 Mar. (78) .	1 Sun	106-4050	3770

TABLE

-		5 -	-						1	
				CONCU	RRENT Y	EAR.	Line II	awi -		
Kali.	Saka.	Chaîtrădi Vikrama.	Meshādi solar year in Bengal.	Koliam.	A.D.	Sout		Northern system.		Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	(7	-	8a
3771 3772 3773	592 593 594	727 728 729	76 77 78	17.6	669-70 670-71 671-72		3 Sul	hava		6 Bhādrapada
3774	595	730	79	-14-	*672-73			mőda .	Ga 124	3 Jyështha .
3775	596	731	80		673-74		6 An	njāpati .		a dyesutus .
3776	597	732	81		674-75			mukha	200	11 Māgha
3777	598	733	82		675-76 *676-77		8 Bh			The same of
3778	599	734	83		677-78		9 Yu	van		300
3770	600	735	85		678-79		10 Dh	ātri	168	8 Karttika .
3780 3781	602	737	86	-	679-80		11 Iiv	ara	(4)	New Time
3782	603	738	87	111	*680-81		12 Ba	hudhānya .	10	200
3783	604	739	88	Selful	681-82			amādin .	1.0	5 Śrāvana .
3784	605	740	89		682-83	- 12	14 Vil		*	
3785	606	741	90		683-84		15 Vr		25	1 Chaitra .
3786	607	742	91		*684-85	70 (48)		itrabhānu .	*	
3787	608	743	92		685-86	1300		bhānu	- ;	10 Pausha
3788	609	744	93		686-87			rthiva		
3789	610	745			687-88		20 V		2	
3790	611	746			*688-89 689-90			rvajit .	- 2	6 Bhādrapada
3791	612	747	1 (88		690-91			rvadhārin .		344
3792	613	748	0.0		691-92	100 10	23 Vi	rodhin	*	-m
3793	614	WEST.			*692-93		24 Vi	krita	,	3 Jyčahtha .
3794 3795	616	751			693-91	-14	25 K	bara	1 8	

1 Ārya Siddhānta, mean system.

			N OF THE	MET	NCE	IME	COM				
Kali yes			MEAN LUNI-SOLAR CIVIL DAY ON WHICE	MEAN SOLAR YEAR.							
	a (here=t, the index of the tithi).	Week-day,	Day and month, A.D.	Time of mean Mësha- samkranti.			Week-day.	h,	Day and mont		
1	23	20	19		17		14		13		
	200 -010	e 92	0.35 - 4001	S.	M.	н.			44 44 44		
3771	320-7213	6 Fri	9 Mar. (68) .	0	25	5	5 Thur.	ific	22 Mar. (81) .		
3772	196-4046	3 Tues	26 Feb. (57) .	30	37	11	6 Fri	810	22 Mar. (81) .		
3773	231-0442 106-7276	2 Mon 6 Fri	17 Mar. (76)	0	50	17	0 Sat	2.5.1	22 Mar. (81) .		
3774	321-0429	PERSONAL PROPERTY.	5 Mar. (65) .	30	2	0	2 Mon		22 Mar. (82) .		
3775	17-0506	0.00	23 Feb. (54) . 13 Mar. (72) .	30	15	12	3 Tues.	1000	22 Mar. (81) .		
3777	231-3658	0.00		0	27 40	18	4 Wed	7,632	22 Mar. (81) .		
3778	266-0054	6.75.1	3 Mar. (62) . 21 Mar. (81) ,	30		- 0	5 Thur.		22 Mar. (81) .		
3779	141-6888	0.70	20.20 100	0	52	7	0 Sat	58.0	22 Mar. (82) .		
3780	17-3723		10 Mar. (69) . 27 Feb. (58) .	30	17	13	1 Sun.	11.0	22 Mar. (81) .		
3781	52-0118	0 Sat 6 Fri	18 Mar. (77) .	0	30	19	2 Mon	0.50	22 Mar. (81) .		
3782	266-3271	4 Wed.	7 Mar. (67)	30	42	1	3 Tues		22 Mar. (81) .		
3783	142-0105	1 Sun.	24 Feb. (55) .	0	55	7	5 Thur 6 Fri	1166	22 Mar. (82) . 22 Mar. (81) .		
3784	176-6501	0 Sat	15 Mar. (74)	30	7	14	0 Sat	920	22 Mar. (81) .		
3785	52-3334	4 Wed.	4 Mar. (63)	0	20	20	I Sun	101	22 Mar. (81) .		
3786	266-6487	2 Mon	22 Feb. (53) .	30	32	2	3 Tues.	102	22 Mar. (82) .		
3787	301-2884	1 Sun.	12 Mar. (71) .	0	45	8	4 Wed.	100	22 Mar. (81) .		
3788	176-9717	5 Thur.	1 Mar. (60) .	30	57	14	5 Thur.	0.00	22 Mar (81) .		
3789	211-6114	4 Wed	20 Mar. (76) .	0	10	21	6 Fri.		22 Mar. (81) .		
3790	87-2948	1 Sun.	8 Mar. (68)	30	22	3	1 Sun.		22 Mar. (82) .		
3791	301-6100	6 Fri.	26 Feb. (57) .	0	35	9	2 Mon.		22 Mar. (81) .		
3792	9997-6177†	4 Wed	16 Mar. (75) .	30	47	15	3 Tues.		22 Mar. (81) .		
3793	211-9330	2 Mon.	6 Mar. (65) .	0	0	22	4 Wed.		22 Mar. (81) .		
3794	87-6164	6 Fri.	23 Feb. (54) .	30	12	4	6 Fri.	1 3	22 Mar. (82) .		
3795	122-2560	5 Thur	13 Mar. (72) .	0	25	-8	0 Sat.	1	22 Mar. (81) .		

[†] As a mean tithi Chaitra Sukla I was expunged. The civil day corresponding to it, i.e., the first day of the mean luni-solar year was as given in cols. 19, 20.

TABLE

				AR.	RENT YE	CONCUE				
Mean Intercalated (adhika) lunar month.		Northern system.	JOVIAN SAS	22.00	A.D.	Kollam.	Mēshādi solar year in Bengal.	Chaitradi Vikrama.	Saka.	Kali.
Sa		7	6		5	4	3a	3	2	1
11 Māgha .			26 Nas 27 Viji 28 Jay		694-95 695-96 *696-97	-22	101 102 103	752 753 754	617 618 619	3796 3797 3798
8 Kärttika .	95 (4	nmatha .	-		697-98		103	755	620	3799
o Karveisa	į	rmukha .			698-99		105	756	621	3800
****	×	malamba .			699-700		106	757	622	3801
4 Åshādha .			32 Vil		*700-01		107	758	623	3802
***		ărin . ,	33 Vik	-, 18	701-02	- 14	108	759	624	3803
		varin	34 Sår	O I III	702-03	-145	109	760	625	3804
1 Chaitra .		YA	35 Pla	1	703-04	-	110	761	626	3805
2465		hakrit .	36 Sul	- 10	*704-05		111	762	627	3806
9 Mārgašira .		hana	37 Sől		705-06		112	763	628	3807
2.5		odhin	38 Kr	43.46	706-07	-01	113	764	629	3808
		vāvasu .	39 Viá		707-08		114	765	630	3809
6 Bhādrapada		abhava .	40 Par	0.00	*708-09		115	766	631	3810
1127		vanga	41 Pla	40.00	709-10	948	116	767	632	3811
64		aka	42 Kil	11745	710-11		117	768	633	3812
2 Vaisākha .		imya	43 Sau	EIL Î	711-12	-76	118	769	634	3813
(000)		lhāraņa .	44 Sād		*712-13	-11.1	119	770	635	3814
11 Magha .		ödhakrit .	45 Vir	1.1	713-14		120	771	636	3815
		ridhāvin .	- 46 Par	PIT BY	714-15	HE K	121	772	637	3816
***		mādin .	47 Pro		715-16		122	773	638	3817
8 Karttika† .	4	anda	48 Ān	11.0	*716-17	14	123	774	539	3818
	4	kshasa . ,	49 Ra	LE	717-18	40.0	124	775	640	3819
266		nla	50 An	1 1 11	718-19		125	776	641	3820

[†] By the " Indian Calendar " 7 Afvins was intercalated but the case was a close one.

1 Ārya Siddhānta, mean system.

1	COMMENCEMENT OF THE													
10					T OF THE	EMEN	MENCI	CO2						
Kali yea	SUNRISE OF KLA 1 ENDS).							OLAB YEAR,	HAN S	М				
	a (here=t, the index of the tithi).	day.	Week-d	nth.	Day and mo	ësha-	Time nean M samkri	Week-day.	and month, Week-day					
1	23		20		19		17	14		13				
				300		S.	н. м.							
3796	9997-9394†	3 18	2 Mon.		2 Mar. (61)	30	16 37	1 Sun.	*5	22 Mar. (81) .				
3797	32-5790	E.	1 Sun.	3	21 Mar. (80)	0	22 50	2 Mon	-	22 Mar. (81) .				
3798	246-8943		6 Fri.	- 1	10 Mar. (70)	30	5 2	4 Wed.		22 Mar. (82) .				
3799	122-5777		3 Tues,	-4	27 Feb. (58)	0	11 15	5 Thur	Ē	22 Mar. (81) .				
3800	157-2173		2 Mon.	0.4	18 Mar. (77)	30	17 27	6 Fri	150	22 Mar. (81) .				
3801	32-9006		6 Fri.	20	7 Mar. (66)	0	23 40	0 Sat	(0.0)	22 Mar. (81) .				
3802	247-2159		4 Wed.	72	25 Feb. (56)	30	5 52	2 Mon		22 Mar. (82) .				
3865	281-8555		3 Tues.		15 Mar. (74)	0	2 5	3 Tues, .	100	22 Mar. (81) .				
3804	157-5389		0 Sat.		4 Mar. (63)	30	8 37	4 Wed	0	22 Mar. (81) .				
3800	33-2223		4 Wed.		21 Feb. (52)	0	0 30	6 Fri	14	23 Mar. (82) .				
3808	67-8619		3 Tues.		11 Mar. (71)	30	6 42	0 Sat		22 Mar. (82) .				
3807	282-1771		1 Sun.		1 Mar. (60)	0	2 55	1 Sun	15	22 Mar. (81) .				
3802	316-8168		0 Sat.		20 Mar. (79)	30	9 7	2 Mon		22 Mar. (81) .				
3809	192-5002	e s	4 Wed.		9 Mar. (68)	0	1 20	4 Wed		23 Mar. (82) .				
381u	68-1835		1 Sun.		28 Feb. (57)	30	7 32	5 Thur		22 Mar. (82) .				
3811	102-8231		0 Sat.	-	16 Mar. (75)	0	3 45	6 Fri		22 Mar. (81) .				
3812	317-1384		5 Thur.		6 Mar. (65)	30	9 57	0 Sat		22 Mar. (81) .				
3812	192-8218		2 Mon.		23 Feb. (54)	0	2 10	2 Mon.		23 Mar. (82) .				
3814	227-4614		1 Sun.		13 Mar. (73)	30	8 22	3 Tues		22 Mar. (82) .				
3815	103-1447		5 Thur.		2 Mar. (61)	0	4 35	4 Wed		22 Mar. (81) .				
3816	137-7843		4 Wed.		21 Mar. (80)	30	0 47	5 Thur.		22 Mar. (81) .				
3817	13-4678		1 Sun.		10 Mar. (69)	0	3 0	0 Sat.		23 Mar. (82) .				
3818	227-7831		6 Fri.		28 Teb. (59)	30	9 12	1 Sun.		22 Mar. (82) .				
3819	262-4226	15	5 Thur.		18 Mar. (77)	0	5 25	2 Mon.		22 Mar. (81) .				
3820	138-1060		2 Mon.		7 Mar. (68)	30	1 37		- 61	22 Mar. (81) .				

[†] As a mean tithi Chaitra sukla I was suppressed. The civil day corresponding to it, i.e., the first day the mean luni-solar year, was as given in cols. 19. 20.

				CONCUR	RENT YEA	AR.			
Kali.	Salca.	Chaitradi Vikrama.	Meshādi solar year in Bengal.	Kollam.	A.D.	JOVIAN SAI	Northern system.		Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7		8a
3821 3822 3823	642 643 644	777 778 779	126 127 128		719-20 *720-21 721-22		igala ilayukta	(4)	4 Āshāḍha
3824	645	780	129	MILE	722-23	54 Re	udra .	10	1 Chaitra .
3825	646	781	130		723-24	55 Di	irmati	1	24
3826	647	782	131		*724-25	56 De	andubhi .	-	9 Mārgašira .
3827	648	783	132		725-26	57 Rt	adhirödgarin .	4.	***
3828	649	784	133		726-27	58 R	ktāksha .	*	
3829	650	785	134		727-28	59 Kı	rõdhana .	*	6 Bhādrapada
3830	651	786	135		*728-29	60 K	shaya	2.7	444
3831	652	787	136		729-30	1 Pr	abhava	-	***
3832	653	788	137		730-31	10.70	bhava	-	2 Vaišākha .
3833	654	789	138		731-32	3 Šu		- 400	166
3834	655	790	139		*732-33		amõda	211	11 Magha .
3835	656	791	140		733-34		ajāpati	*5	344
3836	657	792	141		734-35		igiras†		# T/ 1
2837	658	793	142		735-36		hāva		7 Åávina .
3838	659	794	143		*736-37		unan	-	***
3839	660	795	144		737-38	10 Di			
3840	661	796	145		738-39	11 <i>Li</i>		•0	4 Āshāḍha .
3841	662	797	146		739-40 •740-41	455.44	ahudhanya . ramathin .		10 Dhalanna
3842	663	798	147		741-42		krama .		12 Phälguna .
3843	664	800	148		742-43		risha	*	State
3844	665	801	150		743-44		nitrabhānu .		9 Mārgašira .
3845	666	301	100		7.20-14				" marganita .

[†] By the mean system, as well as by the true system, 7 Stimukha was expunged.

LXXVI-Contd.

1 Ārya Siddhānta, mean system,

Kali ye	SUNBISE OF KLA I ENDS).	YEAR (NEAN II CHAITRA ŚUS	MEAN LUNI-SOLAR CIVIL DAY ON WHIC		SOLAR YEAR.	BAN 1	Мв
	a (hero=t, the index of the tithi).	Week-day.	Day and month, A.D.	Time of mean Mësha- samkranti.	Week-day.	th,	Day and mont
1	23	20	19	17	14		13
				H. M. S.			00.16
3821	13-7894	6 Fri	24 Feb. (55) .	3 50 0	5 Thur	20	23 Mar. (82) .
3822	48-4290	5 Thur	14 Mar. (74) .	10 2 30	6 Fri.	₹¥	22 Mar. (82) .
3823	262-7443	3 Tues	4 Mar. (63) .	16 15 0	0 Sat, .	*	22 Mar. (81) .
3824	138-4276	0 Sat	21 Feb. (52) .	22 27 30	I Sun.		22 Mar. (81) .
3825	173-0673	6 Fri	12 Mar. (71) .	4 40 0	3 Tues	*	23 Mar. (82) .
3826	48-7506	3 Tues	29 Feb. (60) .	10 52 30	4 Wed.	82	22 Mar. (82) .
3827	83-3903	2 Mon	19 Mar. (78) .	17 5 0	5 Thur		22 Mar. (81) .
3828	297-7055	0 Sat	9 Mar. (68) .	23 17 30	6 Fri	-	22 Mar. (81) .
3829	173-3890	4 Wed	26 Feb. (57) .	5 30 0	1 Sun.		23 Mar. (82) .
3830	208-0286	3 Tues	16 Mar. (76) .	11 42 30	2 Mon		22 Mar. (82) .
3831	83-7119	0 Sat. ,	5 Mar. (64) .	17 55 0	3 Tues.		22 Mar. (81) .
3832	298-0272	5 Thur	23 Feb. (54) .	0 7 30	5 Thur	*	23 Mar. (82) .
3833	332-6669	4 Wed.	14 Mar. (73) .	6 20 0	6 Fri		3 Mar. (82) .
3834	208-3502	1 Sun	2 Mar. (62) .	12 32 30	0 Sat	-	2 Mar. (82) .
3835	242-9898	0 Sat	21 Mar. (80) .	18 45 0	1 Sun	-	2 Mar. (81) .
3836	118-6732	4 Wed	10 Mar. (69)	0 57 30	3 Tues		3 Mar. (82) .
3837	332-9885	2 Mon	28 Feb. (59) .	7 10 0	4 Wed.	*	3 Mar. (82) .
3838	28-9962	0 Sat	17 Mar. (77) .	13 22 30	5 Thur	• 3	2 Mar. (82) .
3839	243-3115	5 Thur	7 Mar. (66)	19 35 0	6 Fri		2 Mar. (81) .
3840	118-9949	2 Mon	24 Feb. (55) .	1 47 30	1 Sun		3 Mar. (82) .
3841	153-6345	1 Sun.	15 Mar. (74) .	8 0 0	2 Mon.		3 Mar. (82) .
3842	29-3179	5 Thur	3 Mar. (63) .	14 12 30	3 Tues	2	2 Mar. (82) .
3843	63-9575	4 Wed.		20 25 0	4 Wed.		2 Mar. (81) .
3844	278 2728	2 Mon		2 37 30	6 Fri	14	3 Mar. (82) .
3844	153-9561	6 Fri.	The second second	8 50 0	0 Sat		Mar. (82) .

				CONCU	RRENT YEA	IR.	TI .		
Kali,	Saka.	Chaitradi Vikrama.	Meshidi solar year in Bengal.	Kollam.	A.D.	Joyian sam	Northern system.		Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7		8a
3846	667	802	151		*744-45	17 Subl		•(.00
3847	668	803	152		745-46	18 Tāra	THE STATE OF THE S	2.	
3848	669	804	153		746-47	19 Pärt	and the same of	-	5 Srāvaņa .
3849	670	805	154		747-48	20 Vyay			***
3850	671	806	155		*748-49	21 Sarv			100
3851	672	807	156		749-50	22 Sarv		#3	2 Vaišākha .
3852	673	808	157		750-51	23 Viro	CONTRACTOR OF STA	HE.	***
\$853	674	809	158		751-52	24 Vikr	its		10 Pausha .
3854	675	810	159		*752-53	25 Khar	m		
3855	676	811	160		753-54	26 Nanc		100	***
3856	677	812	161		754-55	27 Vijay		14.7	7 Āŝvina .
3857	678	813	162		755-56	28 Jaya		0.00	***
3858	679	814	163		*756-57	29 Mam	matha .		
3859	680	815	164		757-58	30 Durn	onesaw, _ c	27.1	4 Ashādha .
3860	681	816	165		758:59	31 Hēm	alamba .	30	
3861	682	817	166		759-60	32 Vilar		1.	12 Phälguna .
3862	683	818	167		*760-61	33 Vikā		-	
3863	684	819	168		761-62	34 Sārv		14	***
3864	685	820	169		762-63	35 Play		12	9 Mārgašira .
3865	686	821	170		763-64	36 Subh	mutare 30		
3866	687	822	171		*764-65	37 Sobh			***
3867	688	823	172		765-66	38 Krőd			5 Śrāvana .
3868	689	824	173		766-67	39 Viśvi	ivasu .		***
3869	690	825	174		767-68	40 Parā	bhava .		***
3870	691	826	175		*768-59	41 Play	anga		2 Vaišākha .

LXXVI-Contd.

1 Årya Siddhänta, mean system,

				COMMENCEMENT OF THE													
Kali yea					MEAN LUNI-S				OLAR YEAR.	AN S	Мз						
	a (here=t, the index of the tithi).	ay.	Week-da	oth,	Day and mo	Time of mean Mésha- samkranti.		me	Week-day.	th,	Day and mon A.D.						
1	23	B	20		19		17		14		13						
						S.	M.	H.									
3846	188-5957		5 Thur.	3	19 Mar. (79)	30	2	15	1 Sun	1/2	22 Mar. (82) .						
3847	64-2790	÷	2 Mon.		8 Mar. (67)	0	15	21	2 Mon	-	22 Mar. (81) .						
3848	278-5944		0 Sat.	- 1	26 Feb. (57)	30	27	3	4 Wed	14.	23 Mar. (82) .						
3849	313-2341		6 Fri.		17 Mar. (76)	0	40	9	5 Thur, .		23 Mar. (82) .						
3850	188-9173		3 Tues.		5 Mar. (65)	30	52	15	6 Fri	35	22 Mar. (82) .						
3851	64-6007		0 Sat.		22 Feb. (53)	0	5	22	0 Sat		22 Mar. (81),						
3852	99-2404		6 Fri,	*	13 Mar. (72)	30	17	4	2 Mon		23 Mar. (82) .						
3853	313-5556		4 Wed.		3 Mar. (62)	0	30	10	3 Tues	12	23 Mar. (82) .						
3854	9-5633	5)	2 Mon.	*	20 Mar. (80)	30	42	16	4 Wed	-	22 Mar. (82) .						
3855	223-8786		0 Sat.	25	10 Mar. (69)	0	55	22	5 Thur		22 Mar. (81) .						
3856	99-5620		4 Wed.	- 21	27 Feb. (58)	30	7	ō	0 Sat		23 Mar. (82) .						
3857	134-2016		3 Tues.	1	18 Mar. (77)	0	20	11	1 Sun		23 Mar. (82) .						
3858	9-8850		0 Sat.	*:	6 Mar. (66)	30	32	17	2 Mon	2.	22 Mar. (82) .						
3859	224-2003	12	5 Thur.		24 Feb. (55)	0	45	23	3 Tues		22 Mar. (81) .						
3860	258-8399	100	4 Wed.		15 Mar. (74)	30	57	5	5 Thur		23 Mar. (82) .						
3861	134-5233		1 Sun.	1	4 Mar. (63)	0	10	12	6 Fri		23 Mar. (82) .						
3862	169-1628		0 Sat.		22 Mar. (82)	30	22	18	0 Sat		22 Mar. (82) .						
3862	44-8463		4 Wed.		11 Mar. (70)	0	35	0	2 Mon	80	23 Mar. (82) .						
3864	259-1616		2 Mon.		1 Mar. (60)	30	47	6	3 Tues		23 Mar. (82) .						
3865	293-8612		1 Sun		20 Mar. (79)	0	0	13	4 Wed.	20	23 Mar. (82) .						
3866	169-4846		5 Thur.		8 Mar. (68)	30	12	19	5 Thur		22 Mar. (82) .						
3867	45-1680		2 Mon.		25 Feb. (56)	0	25	1	0 Sat	*	23 Mar. (82) .						
3888	79-8076	5	1 Sun.	88	16 Mar. (75)	30	37	7	1 Sun	-	23 Mar. (82) .						
3869	204-1228		6 Fri.	140	6 Mar. (65)	0	50	13	2 Mon	40	23 Mar, (82) .						
3870	169-8062		3 Tues.		23 Feb. (51)	30	2	20	3 Tues		22 Mar. (82) .						

TABLE

				CONCU	RRENT YEA	R.			
Kali.	Saka.	Chaitradi Vikrama.	Meshādi solar year in Bengal	Kollam.	A.D.	Jovian san	Northern system.		Mean Interculated (adhika) lunar month,
1	2	3	3a	4	5	6	7		8a
3871 3872 3873	692 693 694	827 828 829	176 177 178		769-70 770-71 771-72	42 Kilo 43 Sau 44 Sādi	mya	•	 10 Pausha .
3874	695	830	179		*772-73	45 Viro	dhakrit .		1555
3875	696	831	180		773-74	46 Pari	dhāvin .		7 Āśvina .
3876	697	832	181	10,000	774-75	47 Prar	nádin .	160	
3877	698	833	182		775-76	48 Āna	nda	(45	***
3878	699	834	183		*776-77	49 Rāk	shasa	1(*)	3 Jyështha .
3879	700	835	184	100	777-78	50 Anal	la	500	***
3880	701	836	185		778-79	51 Ping	ala	350	12 Phälguna .
3881	702	837	186		779-80	52 Kāla	yukta .	9	***
3882	703	838	187		*780-81	53 Sidd	hārthin .	14	
3883	704	839	188		781-82	54 Rau	dra	5.0	8 Kārttika .
3884	705	840	189		782-83	55 Duri	nati	.*	***
3885	706	841	190	1	783-84	56 Dune	dubhi .	2	***
- 3886	707	842	191		*784-85	57 Rudi	hirödgärin .		5 Srāvaņa .
3887	708	843	192		785-86	58 Rakt	āksha .	15	
3888	709	844	193		786-87	59 Kröd	String to the st		***
3889	710	845	194		787-88	60 Ksha	ya		1 Chaitra .
3890	711	846	195		*788-89	1 Prab	linva		
3891	712	847	196		789-90	2 Vibh	ava		10 Pausha .
3892	713 -	848	197		790-91	3 Sukli			***
3893	714	849	198	3	791-92 .	4 Pran	ōda		
3894	715	850	199		*792-93	5 Praji	pati		7 Asvinar .
3895	716	851	200	_	793-94	6 Angir	ms		

† By the "Indian Calendar" 6 Bhadrapada was intercalated,

1 Årya Siddhänta, mean system.

			T OF THE	MMENCEMEN	COL		
Klai yea			MEAN LUNI-SOLAR CIVIL DAY ON WHICH		OLAR TEAR.	EAN S	Ma
	a (here—t, the index of the tithi).	Week-day.	Day and month, A.D.	Time of mean Měsha- samkränti.	Week-day.	th,	Day and mon
1	23	20	19	17	14		13
3871	204-4459	2 Mon	13 Mar. (72)	H. M. S. 2 15 0	5 Thur	٠	23 Mar. (82) .
3872	80-1292	6 Fri.	2 Mar. (61)	8 27 30	6 Fri	2	23 Mar. (82) .
3873	114-7688	5 Thur.	21 Mar. (80)	14 40 0	0 Sat		23 Mar. (82) .
3874	329-0841	3 Tues.	10 Mar. (70) .	20 52 30	1 Sun.		22 Mar. (82) .
3875	204-7675	0 Sat	27 Feb. (58) .	3 5 0	3 Tues	*	23 Mar. (82) .
3876	239-4071	6 Fri.	18 Mar. (77) .	9 17 30	4 Wed		23 Mar. (82) .
3877	115-0904	3 Tues	7 Mar. (66)	15 30 0	5 Thur	-	23 Mar. (82) ,
3878	329-4057	1 Sun.	25 Feb. (56) .	21 42 30	6 Fri		22 Mar. (82) .
3879	25-4134	6 Fri	14 Mar. (73) .	3 55 0	1 Sun		23 Mar. (82) .
3880	239-7288	4 Wed.	4 Mar. (63) .	10 7 30	2 Mon		23 Mar. (82) .
3881	274-3682	3 Tues	23 Mar. (82) .	16 20 0	3 Tues		23 Mar. (82) .
3882	150-0517	0 Sat	11 Mar. (71) .	22 32 30	4 Wed	•	22 Mar. (82) .
3883	25-7351	4 Wed	28 Feb. (59) .	4 45 0	6 Fri		23 Mar. (82) .
3884	60-3747	3 Tues	19 Mar. (78) .	10 57 30	0 Sat		23 Mar. (82) ,
3885	274-6900	1 Sun	9 Mar. (68) .	17 10 0	1 Sun.		23 Mar. (82) .
3886	150-3734	5 Thur	26 Feb. (57) .	23 22 30	2 Mon	4	22 Mar. (82) .
3887	185-0130	4 Wed.	16 Mar. (75) .	5 35 0	4 Wed		23 Mar. (82) .
3888	60-6963	1 Sun	5 Mar. (64) .	11 47 30	5 Thur		23 Mar. (82) .
3889	275-0116	6 Fri	23 Feb. (54) .	18 0 0	6 Fri		23 Mar. (82) .
3890	309-6513	5 Thur	13 Mar. (73) .	0 12 30	1 Sun		23 Mar. (83) .
3891	185-3346	2 Mon. ,	2 Mar. (61) .	6 25 0	2 Mon.		23 Mar. (82) .
3892	219-9743	1 Sun. ,	21 Mar. (80) ,	12 37 30	3 Tues	-	23 Mar. (82) .
3893	95-6776	5 Thur	10 Mar. (69) .	18 50 0	4 Wed	4.	23 Mar. (82) .
3894	309-9730	3 Tues.	23 Feb. (59) .	1 2 30	6 Fri		23 Mar. (83) . "
3895	5-9807	1 Sun.	17 Mar. (76) .	7 15 0	0 Sat		23 Mar. (82) .

TABLE

6)10		1071	1191	2 3				1	
				CONCUR	RENT YEA	AR.			13 17
Kali.	Saka.	Chaitradi Vikrama.	Meshadi solar year in Bengal.	Kollam.	A.D.	Joyian Sax Southern system.	Northern system,		Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7		8a
3896 3897	717 718	852 853	201 202		794-95 795-96	7 Srin 8 Bhi	nukha		 3 Jyështha .
3898	719	854	203		*796-97	9 Yu	van	7.	775
3899	720	855	204		797-98	10 Dhi		*	12 Phälguna .
3900	721	856	205	-44	798-99	11 Iáv		4	444
3901	722	857	206	19/6	799-800		hudhānya .	1/2	6 W. T. 14 C.
3902	723	858	207	111	*800-01		mathin .	-	8 Kārttika .
3903	724	859	208		801-02		rama	*	***
3904	725	860	209	1111	802-03	15 Vṛi		2.0	. 6.7
3905	726	861	210	BRO E	803-04		trabhanu -	(3)	5 Srāvaņa .
3906	727	862	211		*804-05	3/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	ohānu	10	***
3907	728	863	212		805-06	18 Tar	rapa	((*)	1 Chaitra .
3908	729	864	213	18	806-07	2.47(5)(1)		(40)	1 Chaista .
3909	730	865	214	1-13	807-08	20 Vy 21 Sar		32/	10 Pausha .
3910	731	866	215	100	*808-09	Tr.	rvadhārin .	100	***
3911	732	867	216		809-10 810-11	SALAN	odhin	/(5.2	120
3912	733	868	217		811-12	24 VII		20	6 Bhàdrapada.
3913	734	869	218		*812-13	25 Kł			***
3914	735	870	219		813-14		ndana	100	
3915	736	871	220	1000	814-15	27 Vij			3 Jyështha .
3916	737	872	50		815-16	28 Ja			10,000
3917	738	874	5370		*816-17	10000000	anmatha .	1	11 Māgha .
3918	739	10000	10000		817-18	30 Du	rmukha .		
3919	740	7-72-2	1	1	818-19	31 He	imalamba .		0.00
3920	741	816	250	1					

I Ārya Siddhānta, mean system.

		CO	MMENCEMEN	NT OF THE			
Mz	AN I	SOLAB YEAR.		MEAN LAUNI-SOLAR CIVIL DAY ON WHIC	YEAR (MEAN II CHATTRA SUR	SUNRISE OF LA 1 ENDS).	Kali year.
Day and mont	h.	Week-day.	Time of mean Mesha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	Ne
13		14	17	19	20	23	1
23 Mar. (82) .		1 Sun.	H. M. S. 13 27 30	7 Mar. (66) .	6 Fri.	220-2959	3896
23 Mar. (82) .		2 Mon	19 40 0	24 Feb. (55) .	3 Tues	95-9793	3897
23 Mar. (83) .		4 Wed	1 52 30	14 Mar. (74) .	2 Mon	130-6189	3898
23 Mar. (82) ,		5 Thur	8 5 0	3 Mar. (62) .	6 Fri	6-3023	3599
23 Mar. (82) .	3	6 Fri	14 17 30	22 Mar. (81) .	5 Thur	40-9419	3900
23 Mar. (82) .	¥	0 Sat	20 30 0	12 Mar. (71) .	3 Tues	255-2572	3901
23 Mar. (83) .		2 Mon	2 42 30	29 Feb. (60) .	0 Sat	130-9406	5902
23 Mar. (82) .		3 Tues	8 55 0	19 Mar. (78)	6 Fri	165-5802	3903
23 Mar. (82) .	2	4 Wed	15 7 30	8 Mar. (67) .	3 Tues	41-2636	3904
23 Mar. (82) .		5 Thur	21 20 0	26 Feb. (57) .	1 Sun	255-5789	3905
23 Mar. (83) .		0 Sat	3 32 30	16 Mar. (76) .	0 Sat	200-2185	3906
23 Mar. (82) .		1 Sun.	9 45 0	5 Mar. (64) .	4 Wed	165-9018	3907
23 Mar. (82) .	1	2 Mon	15 57 30	22 Feb. (53) .	1 Sun	41-5852	3908
23 Mar. (82) .		3 Tues	22 10 0	13 Mar. (72) .	0 Sat	76-2248	3969
23 Mar. (83) ,	·*	5 Thur	4 22 30	2 Mar. (62) .	5 Thur	290-5401	3910
23 Mar. (82)		6 Fri	10 35 0	21 Mar. (80) .	4 Wed	325-1798	3911
23 Mar. (82) .		0 Sat	16 47 30	10 Mar. (69) .	1 Sun	200-8631	3912
23 Mar. (82) .		1 Sun	23 0 0	27 Feb. (58) .	5 Thur	76-5465	3913
23 Mar. (83) .	1	3 Tues	5 12 30	17 Mar. (77) .	4 Wed	111-1862	2914
23 Mar. (82) .	1	4 Wed	11 25 0	7 Mar. (66) .	2 Mon	325-5013	2015
23 Mar. (82) .		5 Thur	17 37 30	24 Feb. (55) .	6 Fri	201-1847	3916
23 Mar. (82) .	4	6 Fri .	23 50 0	15 Mar. (74) .	5 Thur	235-8244	2017
23 Mar. (83) .		1 Sun.	6 2 30	3 Mar. (63) .	2 Mon.	111-5078	3918
23 Mar. (82) .		2 Mon.	12 15 0	22 Mar. (81)	1 San	146-1473	jii/19
A	1	Carried Co.	Section 2	11 Mar. (70) .	5 Thur.	21-8307	35.20
23 Mar. (82) .	2	3 Tues	18 27 30	11 mar. (10) .	O THEFT	HE GOVE	OCC CO.

TABLE

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				CONCUR	RENT YE	R.	
Kall.	Salta.	Chaitradi Vikrama.	Mahiidi solar yesr in Bengal.	Kollam.	A. D.	Jovian Samvatsara. Southern Northern system.	Mean Intercalated (adhika) tunar month.
1	2]	3	3л	-4	5	.6 .7	8a
3921 3922 3923 3924 3925	742 743 744 745 746	877 878 579 880 881	226 227 228 229 230		819-20 *820-21 821-22 822-23 823-24	32 Vilamba†	8 Kārttika
3928	747	882	231		*824-25	38 Krödhin	***
3927	748	883	232	0-1	825-26	39 Višvāvasu	1 Chaitra
3928	749	884	233	1-2	826-27	40 Paribhava	
3929	750	885	234	2.3	827-28	41 Playanga	10 Panelia
3530	751	886	235	3-4	*828-29	42 Kilaka	
3931	752	887	236	4.5	829-30	43 Saumya	
3932	753	888	237	5-6	830-31	44 Sādhāraņa .	6 Bhādrapada.
3933	754	889	238	0-7	831-32	45 Virðdhakrit	
5934	755	890	239	7-8	*832-33	46 Paridhāvin	-71
3935	756	591	240	8-9	833-34	47 Pramādin	3 Jyčahtha .
3936	757	892	241	9-10	834-35	48 Ananda	1 1 3
3937	758	893	242	10-11	835-36	49 Rākshasa .	11 Magha .
3938	759	894	243	11-12	*830-37	50 Anala	946
3939	780	895	244	12-13	837-38	51 Pingala	iren
3940	761	896	245	13-14	838-39	52 Kālayukta	8 Kärttika .
2041	762	897	246	14-15	839-40	53 Siddhärthin	
2942	763	998	247	15-16	*840-41	54 Raudra	244
3943	764	890	248	16-17	841-42	55 Durmati	4 Åshā.ths .
3914	765	900	249	17-18	842-43	56 Dundubhi	1
3945	766	901	250	18-19	843-44	57 Rudhirödgärin	347
-							

[†] By both mean and true systems 32 Vikārin was expanged.

l Ārya Siddhānta, mean system.

		0	OMM	ENC	EME	ENT OF THE	Ī				
N	LEAN	SOLAR YEAR.				MHAN LUNI-SO CIVIL DAY ON W	VHI	E YEAR (MI	ean a śt	SUNRISH OF ELA I ENDS).	
Day and mont	h,	Week-day,	mean	ime n Më nkrës	sha-	Day and month	i,	Week-da	y.	a (here=f, the index of the tithi).	Kali year.
13		14		17		19		20		23	1
24 Mar. (83) .		5 Thur	H. O	M. 40	S. 0	1 Mar. (60)		3 Tues.		236-1460	3921
23 Mar. (83) .	10	6 Fri	6	52	30	19 Mar. (79)		2 Mon.		270-7856	3922
23 Mar. (82) .	-	0 Sat	13	5	0	8 Mar. (67)		6 Fri.	100	146-4690	3923
23 Mar. (82) .	12	I Sun	19	17	30	25 Feb. (56)	*	3 Tues.	100	22-1524	3924
24 Mar. (83) .	7	3 Tues	1	30	0	16 Mar. (75)	2	2 Mon.	4	58-7920	3925
23 Mar. (83) .	-	4 Wed.	7	42	30	5 Mar. (65)	43	0 Sat.	*	271-1073	3926
23 Mar. (82) .		5 Thur	13	55	0	22 Feb. (53)	4	4 Wed.	30	146-7906	3927
23 Mar. (82) .		6 Fri	20	7	30	13 Mar. (72)	*)	3 Tues.		181-4303	3928
24 Mar (83) .		1 Sun	2	20	0	2 Mar. (61)	*11	0 Sat.		57-1137	3929
23 Mar. (83) .	2	2 Mon.	8	32	30	20 Mar. (80)		6 Fri.		91-7533	3930
23 Mar (82) .	1	3 Tues	14	45	0	10 Mar. (69)	100	4 Wed.	12	306-0686	3931
23 Mar. (82) .		4 Wed	20	57	30	27 Feb. (58)	16	I Sun.	7	181-7519	3932
24 Mar. (83) .		6 Fri	3	10	0	18 Mar. (77)	30	0 Sat.		216-3916	3933
23 Mar. (83) .		0 Sat	9	22	30	6 Mar. (66)		4 Wed.		92-0749	3934
23 Mar. (82) .	•	1 Sun	15	35	0	24 Feb. (55)		2 Mon.		306-3902	3935
23 Mar. (82) ,		2 Mon	21	47	30	14 Mar. (73)	9	0 Sat.		2:3979	3936
24 Mar. (83) .	*	4 Wed.	4	0	0	4 Mar. (63)		5 Thur-	3	216-7132	3937
23 Mar. (83) .	31	5 Thur	10	12	30	22 Mar. (82)		4 Wed.	-	251-3528	3938
23 Mar. (82) .		6 Fri	16	25	0	11-Mar. (70)	4	1 Sun.		127-0362	3939
23 Mar. (82) .	**	0 Sat	22	37	30	28 Feb. (59)		5 Thur.		2-7176	3940
24 Mar. (83) .	**	2 Mon .	4	50	0	19 Mar. (78)		4 Wed.	9	37-3592	3941
23 Mar. (83) .	*	3 Tues	11	2	30	8 Mar. (68) -		2 Mon.		251-6745	3942
23 Mar. (82) .		4 Wed. ,	17	15	0	25 Feb. (56)		6 Fri.		127-3579	3943
23 Mar. (82) .	-	5 Thur.	23	17	30	16 Mar. (75)		5 Thur.		161-9975	3944
24 Mar. (83) .		0 Sat.	5	40	0	5 Mar. (64)	9	2 Mon.	2	37.6800	3945

TABLE

				CONC	URRENT Y	EAR.			
Kali.	Śaka.	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	Jovias S. Southern system.	Northern system.		Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	.6:	7		8a
3946 3947 3948 3949 3950 3951 3952 3953 3954 3955	707 708 769 770 771 772 773 774 775 776	902 903 904 905 906 907 908 909 910 911	251 252 253 254 255 256 257 258 260 260	19-20 20-21 21-22 22-23 23-24 24-25 25-26 26-27 27-28 28-29 29-30	*844-45 845-46 846-47 847-48 *848-49 849-50 850-51 851-52 *852-53 853-54 854-55	59 Krd 60 Kel 1 Pro 2 Vit 3 Sul 4 Pro 5 Pro 6 An	obhava		1 Chaitra
3957	778	913	262	30-31	855-56	9 Yu			***
3958 3959 3960 2961	780 781 782	914 915 916 917	263 264 265 266	31-32 32-33 33-34 34-35	*856-57 857-58 858-59 859-60		2 2 2	*1 (*) (*)	7 Āśvina .
3962 3963 3964	783 784	918 919 920	267 268	35-36 36-37	*860-61 861-62 862-63	14 Vil 15 Vr	crama		4 Āśhāḍha 12 Phālguna .
3965 3966 3967	786 787	921 922 923	280	39-40	863-64 *864-65 865-66	17 Su 18 Ta	bhānu raņa		 9 Märgašira .
3968 3939 3970	790		274	42-43	\$66-67 867-68 *868-69		nya rvajit rvadhārin .		 6 Bhādrapada.†

[†] By the " Indiah Calendar " 5 Śrāvans was intercalated.

I Ārya Siddhānta, mean system.

	N	COS	MENCEMEN	T OF THE		1	
Me	AN B	OLAB YEAR,		MEAN LUNI-SOLAR CIVIL DAY ON WHICE	YEAR (MEAN II CHAITBA ŚUI	SUNRISE OF ILA 1 ENDS).	Kali year.
Day and mont	h,	Week-day.	Time of mean Mesha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13		14	17	19	20	23	1
23 Mar. (83) .		1 Sun.	H. M. S. 11 52 30	23 Feb. (54) .	0 Sat	251-9960	3946
23 Mar. (82) .		2 Mon.	18 5 0	13 Mar. (72)	6 Fri	286-6357	3947
24 Mar. (83) .		4 Wed	0 17 30	2 Mar. (61) .	3 Tues	162-3191	3948
24 Mar. (83) .		5 Thur	6 30 0	21 Mar. (80) .	2 Mon	196-9588	3949
23 Mar. (83) .		6 Fri	12 42 30	9 Mar. (69) .	6 Fri	72-6421	3950
23 Mar. (82) .	2	0 Sat	18 55 0	27 Feb. (58) .	4 Wed	286-9573	3951
24 Mar. (83) .	FW.	2 Mon	1 7 30	18 Mar. (77) .	3 Tues.	321-5970	3952
24 Mar. (83) .		3 Tues	7 20 0	7 Mar. (66) .	0 Sat	197-2803	3953
23 Mar. (83) .	4	4 Wed	13 32 30	24 Feb. (55) .	4 Wed	72-9637	3954
23 Mar. (82) .		5 Thur	19 45 0	14 Mar. (73) .	3 Tues	107-6033	3955
24 Mar. (83) .		0 Sat	1 57 30	4 Mar. (63) .	1 Sun	321-9186	3956
24 Mar. (83) .	,	1 Sun.	8 10 0	22 Mar. (81) .	6 Fri	17-9263	3957
23 Mar. (83) .	4	2 Mon	14 22 30	11 Mar. (71) .	4 Wed	232-2416	3958
23 Mar. (82) .	4	3 Tues	20 25 0	28 Feb. (59) .	1 Sun	107-9250	3959
24 Mar. (83) .		5 Thur	2 47 30	19 Mar. (78) .	0 Sat	142-5646	3960
24 Mar. (83) .	1	6 Fri	9 0 0	8 Mar. (67) .	4 Wed	18-2480	3961
23 Mar. (83) .	340	0 Sat	15 12 30	26 Feb. (57) .	2 Mon. ,	232-5633	3962
23 Mar. (82) .	(2)	1 Sun	21 25 0	16 Mar. (75) .	1 Sun	267-2029	3963
24 Mar. (83) .		3 Tues	3 37 30	5 Mar. (64) .	5 Thur	142-8863	3964
24 Mar. (83) .		4 Wed	9 50 0	24 Mar. (83) .	4 Wed	177-5259	3965
23 Mar. (83) .		5 Thur	16 2 30	12 Mar. (72) .	1 Sun	53-2093	3966
23 Mar. (82) .	II E	6 Fri	22 15 0	2 Mar. (61) .	6 Fri	267-5245	3967
24 Mar. (83) .		1 Sun	4 27 30	21 Mar. (80) .	5 Thur	302-1642	3968
24 Mar. (83) .		2 Mor	10 40 0	10 Mar. (69) .	2 Mon	177-8475	3969
23 Mar. (83) .		3 Tues	16 52 30	27 Feb. (58) .	6 Fri	53-5303	3970

TABLE

-		-					7		
	v.			CONCUI	RENT YE	AR.			
Kali,	Saks.	Chaitradi Vikrams.	Meshiidi solar year in Bongal.	Koliam.	A.D.	Jovian Sa Southern system.	Northern system.		Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6			Sa
3971	792 793	927 928 929	276 277 278	44-45 45-46 46-47	869-70 870-71 871-72	23 Vir 24 Vik 25 Kh	rits	(4)	2 Vaišākha
3973	794	930	279	47-48	*872-73	26 Na		100	Company Company Co
3974	796	931	280	48-49	873-74	27 Viji			11 Māgha
3976	797	932	281	49-50	874-75	28 Jay			60
3977	708	933	282	50-51	875-76	The same of the sa	omatha .		
3978	799	934	283	51-52	*876-77	2000	rmukha .		7 Asvina
3079	800	935	284	52-53	877-78	31 Hé	malamba .		
3980	801	936	285	53-54	878-79	32 Vile	umba	12	***
3981	802	937	286	54-55	879-80	33 Vik	ārin	5	4 Āšhādha .
3982	803	938	287	55-50	*880-81	34 Sär	varin	-	***
3983	804	939	288	56-57	881-82	35 Pla	va	134	12 Phälguna
2084	805	940	289	57-58	882-83	36 Sul	hakrit .	9	
3985	806	941	290	58-59	883-84	37 851	hans		
3986	807	942	291	59-60	*884-85	38 Krt	idhiu	16	9 Mārgašira .
3987	808	943	292	60-61	885-86	30 Viš	vāvasu	-	444
2988	809	944	293	61:62	886-87	40 Par	àbhava		***
3989	810	945	204	62-63	887-88	41 Pis	vanga		ā Smvaņa .
3990	811	946	295	63-64	*888-89	42 Kil	aka	10	***
3991	813	947	296	64-65	889-90	43 San	mya	7	Comments of
3992	813	948	297	65-60	890-91	44 Såd	hāraņa .		2 Vnisákha
3993	814	949	298	66-67	891-92		5dhakrit .		
3994	8!5	950	200	67-68	*892-93		idhavin .		10 Pausha .
3995	816	951	300	68-69	893-94	47 Pra	mādin .	3	

1 Ārya Siddhānta, mean system-

F			COM	IMENCEMEN	T OF THE			
	Me	AN 8	OLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC			Kali year.
1	Day and month	4	Week-day.	Time of mean Mësha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
	13		14	17	19	20	23	1
22	3 Mar. (82) .		4 Wed	H. M. S. 23 5 0	17 Mar. (76) .	5 Thur.	88-1705	3971
2	4 Mar. (83) .		6 Fri	5 17 30	7 Mar. (66) .	3 Tues	302-4858	3972
2	4 Mar. (83) .	15.	0 Sat	11 30 0	24 Feb. (55) .	0 Sat	178-1692	3973
2	3 Mar. (83) .		1 Sun	17 42 30	14 Mar. (74) .	6 Fri	212-8088	3974
2	3 Mar. (82) .	100	2 Mon	23 55 0	3 Mar. (62) .	3 Tues	88-4922	3975
2	4 Mar. (83) .	1/2	4 Wed.	6 7 30	22 Mar. (81) .	2 Mon	123-1318	3970
2	4 Mar. (83) .	65	5 Thur	12 20 0	11 Mar. (70) .	6 Fri	9998-8151†	3977
2	3 Mar. (83) .	*	6 Fri	18 32 30	29 Feb. (60) .	4 Wed	213-1304	3978
19	4 Mar. (83) .	*	1 Sun	0 45 0	19 Mar. (78) .	3 Tues	247-7700	3979
2	24 Mar. (S3) .	8	2 Mon	6 57 30	8 Mar. (67)	0 Sat	123-4535	3980
2	24 Mar. (83) .		3 Tues	13 10 0	25 Feb. (56) ,	4 Wed	9999-1368†	3981
2	23 Mar. (83) .		4 Wed.	19 22 30	15 Mar. (75) .	3 Tues	33-7764	3982
2	24 Mar. (83) .	9	6 Fri.	1 35 0	5 Mar. (64) .	1 Sun.	248-0917	3983
12	24 Mar. (83) .		0 Sat	7 47 30	24 Mar. (83) .	0 Sat	282-7313	3984
1	4 Mar. (83) .	4	1 Sun	14 0 0	13 Mar. (72) .	4 Wed, .	158-4147	3985
1	23 Mar. (83) .		2 Mon	20 12 30	1 Mar. (61) .	1 Sun	34-0980	3986
1	24 Mar. (83) .		4 Wed.	2 25 0	20 Mar. (79) .	0 Sht	68-7377	3987
1	24 Mar. (83) .		5 Thur	8 37 30	10 Mar. (69) .	5 Thur	283-0530	3238
12	24 Mar. (83) .	9	6 Fri	14 50 0	27 Feb. (58) .	2 Mon	158-7364	3989
1	23 Mar. (83) .	12	0 Sat	21 2 30	17 Mar. (77) .	I Sun	193-3760	3990
	24 Mar. (83) .		2 Mon	3 15 0	6 Mar. (65) .	5 Thur	69-0594	3991
	24 Mar. (83) .	1/4	3 Tues	9 27 30	24 Feb. (55) .	3 Tues	283-3746	3992
	24 Mar. (83) .		4 Wed	15 40 0	15 Mar. (74) .	2 Mon	318-0143	3993
	23 Mar. (83) .	35	5 Thur	21 52 30	3 Mar. (63) .	6 Fri	193-6976	3994
	24 Mar. (83) .		0 Sat	4 5 0	22 Mar. (81) .	5 Thur	228-3372	3995

[†] As a mean tithi Chaitra Sukla I was suppressed. The civil day corresponding to it, iz., the first day of the mean luni-solar year, was as given in cols. 19, 20.

				CONC	URRENT '	YEAR.			
Kuli.	Saka.	Chaitridi Vikrama.	Mëshadi solar year in Bengal.	Kollam.	A.D.	Jovian 8. Southern system.	Northern system.		Mean Intercalsted (adhika) lunar month.
1	2	3	3a	4	5	6	7		84
3996 3997 3998 3999	817 818 819 820	952 953 954 955	301 302 303 304	69-70 70-71 71-72 72-73	894-95 895-96 *896-97 897-98	48 An 49 Rs 50 An 51 Pi	kshasa		7 Aśvina
4000	821	956	305	73-74	898-99	52 Ki	layukta .	:*	3 Jyështha .
4001	822	957	306	74-75	899-200	53 Sic	ldhärthin .	1.8	in test
4002	823	958	307	75-76	*900-01	54 Ra	adra		12 Phälguna .
4003	824	959	308	76-77	901-02	55 Du	rmati		
4004	825	960	309	77-78	902-03	56 Du	ndubhi .	0	
4005	826	961	310	78-79	903-04	57 Ru	dhiròdgàrin .	•	9 Mārgasira .
4006	827	962	311	79-80	*904-05	58 Ra	ktāksha† .		
4007	828	963	312	80-81	905-06	59 Krödbana .	60 Kshaya		****
4008	829	964	313	81-82	906-07	60 Kshaya‡ .	1 Prabhava		5 Śrāvaņa .
4009	830	965	314	82-83	907-08	1 Prabhava .	2 Vibhava		-
4010	831	966	315	83-84	*908-09	2 Vibhaya .	3 Śukla	74	
4011	832	967	316	84-85	909-10	3 Sukla .	4 Pramoda		2 Vaišákha .
4012	833	968	317	85-86	910-11	4 Pramôda .	5 Prajapati	٠	: ro
4013	834	969	318	86-87	911-12	5 Prajāpati .	6 Angiras	(5)	10 Pausha .
4014	835	970	319	87-88	*912-13	6 Angiras .	7 Śrimukha		***
4015	836	971	320	88-89	913-14	7 Śrimukha .	8 Bhāva		
4016	837	972	321	89-90	914-15	8 Bhāva .	9 Yuvan		7 Āśvina .
4017	838	973	322	90-91	915-16	9 Yuvan	10 Dhātri .		146
4018	839	974	323	91-92	*916-17	10 Dhātri	11 Iśvara .		440
4019	840	975	324	92-93	217-18	11 Isvara	12 Bahudhānys		3 Jyéshtha .
4020	841	978	325	93-94	918-19	12 Bahudhānya .	13 Pramādin		***

⁺ By the mean system 59 Krödhana was expunged; by the true cystem 60 Kshaya was the expunged sam-vatsara and the year A.D. 905-6 was called "Krodhana." ‡ By southern reckoning there was no suppression after this year. ‡ By the "Indian Calendar" 8 Kärttika was intercalated.

1 Ārya Siddhānta, mean system.

			NT OF THE	MMENCEME	CO								
Kali year	Mean solar year. Mean luni-solar year (mean sunrise of civil day on which Chaitra surla 1 ends).												
	a (here—t, the index of the tithi).	Week-day.	Day and month, A.D.	Time of mean Mësha- samkranti.	Week-day.	Day and month, A.D.							
3	23	20	19	17	14	13							
3996	104-0206	2 Mon	11 Mar. (70)	H. M. S. 10 17 30	1 Sun.	24 Mar. (83)							
3997	318-3359	0 Sat	1 Mar. (60) .	16 30 0	2 Mon	24 Mar. (83)							
3998	14-3436	5 Thur	18 Mar. (78) .	22 42 30	3 Tues	23 Mar. (83)							
3999	228-6589	3 Tues	8 Mar. (67) ,	4 55 0	5 Thur	24 Mar. (83)							
4000	104-3423	0 Sat. ,	25 Feb. (56) .	11 7 30	6 Fri	24 Mar. (83)							
4001	138-9819	6 Fri.	16 Mar. (75) .	17 20 0	0 Sat	24 Mar. (83)							
4002	14-6653	3 Tues	4 Mar. (64) .	23 32 30	1 Sun	23 Mar. (83)							
4003	49-3049	2 Mon	23 Mar. (82) .	5 45 0	3 Tues	24 Mar. (83)							
4004	263-6202	0 Sat	13 Mar. (72) .	11 57 30	4 Wed	24 Mar. (83)							
4005	139-3034	4 Wed	2 Mar. (61) .	18 10 0	5 Thur	24 Mar. (83)							
4006	173-9431	3 Tues .	20 Mar. (80) .	0 22 30	0 Sat	24 Mar. (84) , ,							
4007	49-6264	0 Sat.	9 Mar. (68) .	6 35 0	1 Sun	24 Mar. (83)							
4008	263-9418	5 Thur.	27 Feb. (58)	12 47 30	2 Mon	24 Mar. (83)							
4009	298-5814	4 Wed	18 Mar. (77) .	19 0 0	3 Tues	24 Mar. (83)							
4010	174-2647	1 Sun.	6 Mar. (66)	1 12 30	5 Thur.	24 Mar. (84)							
4011	49-9481	5 Thur	23 Feb. (54) .	7 25 0	6 Fri	24 Mar. (83)							
4012	84-5878	4 Wed.	14 Mar. (73) .	13 37 30	0 Sat	24 Mar. (83)							
4013	298-9030	2 Mon	4 Mar. (63) .	19 50 0	1 Sun	24 Mar. (83)							
4014	9994-9109†	0 Sat	21 Mar. (81) .	2 2 30	3 Tues	24 Mar. (84)							
4016	209-2259	5 Thur	11 Mar. (70)	8 15 0	4 Wed.	24 Mar. (83)							
4016	84-9093	2 Mon	28 Feb. (59) .	14 27 30	5 Thur	24 Mar. (83)							
4017	119-5490	I Sun	19 Mar. (78) .	20 40 0	6 Fri	24 Mar. (83)							
4018	9995-23241	5 Thur	7 Mar. (67)	2 52 30	1 Sun	24 Mar. (84)							
4019	209-5476	3 Tues	25 Feb (56) .	9 5 0	2 Mon	24 Mar. (83)							
4020	244-1872	2 Mon	16 Mar. (75) .	15 17 30	3 Tues .	24 Mar. (83)							

j As a mean tithi Chaitra Sukla 1 was suppressed. The civil day corresponding to it, i.e., the first day of the luni-solar year was as given in cols, 10, 20.

TABLE

		_						-
				CONCUR	RENT YE	AR.	Maria .	
		Vikrama.	solar year	i		JOVIAN SA	MVATSABA.	Mean Intercalated (adhika) lunar
Kali,	Saka.	Chartradi V	Mēshādi sol in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	month.
1	2	3	3a	4 2	5	6	7	8a
4021	842	977	326	94-95	919-20	13 Pramādin .	14 Vikrama .	12 Phälguna .
4022	843	978	327	95-96	*920-21	14 Vikrama	15 Vrisha	***
4023	844	979	328	96-97	921-22	15 Vrisha	16 Chitrabhānu .	***
4024	845	980	329	97-98	922-23	16 Chitrabhānu .	17 Subhānu .	8 Kārttika .
4025	846	981	330	98-99	923-24	17 Subhānu .	18 Tăraņa	
4026	847	982	331	99-00	*924-25	18 Tāraņa	19 Pärthiva .	ar i
4027	848	983	332	100-01	925-26	19 Pārthiva .	20 Vyaya	5 Śrāvaņa .
4028	849	984	333	101-02	926-27	20 Vyaya	21 Sarvajit	***
4029	850	985	334	102-03	927-28	21 Sarvajit .	22 Sarvadhārin .	***
4030	851	986	335	103-04	*928-29	22 Sarvadhārin .	23 Virôdhin .	1 Chaitra .
4031	852	987	336	104-05	929-30	23 Virōdhin .	24 Vikrita	
4032	853	988	337	105-06	930-31	24 Vikrita	25 Khara	10 Pausha .
4033	854	989	338	106-07	931-32	25 Khara	26 Nandana .	***
4034	855	990	339	107-08	*932-33	26 Naudana .	27 Vijaya	9440
4035	856	991	340	108-09	933-34	27 Vijaya	28 Jaya	6 Bhādrapada
4036	857	992	341	109-10	934-35	28 Jaya	29 Manmatha .	
4037	858	993	342	110-11	935-36	29 Manmatha .	30 Durmukha .	***
4038	859	994	343	111-12	*936-37	30 Durmukha .	31 Hēmalamba ,	3 Jyështha .
4039	860	995	344	112-13	937-38	31 Hēmalamba .	32 Vilamba .	Section 1
4040	861	996	345	113-14	938-39	32 Vilamba .	33 Vikārin .	Il Māgha .
4041	862	997	346	114-15	939-40	33 Vikāras .	34 Sărvarin .	
4042	863	998	347	115-16	*945-41	34 Sarvarin .	35 Plava	***
4043	864	999	348	116-17	941-42	35 Plava	36 Subhakrit .	8 Kārttika .
4044	865	1000	349	117-18	942-43	36 Subhakrit .	37 Šõbbana .	777
4045	866	1001	350	118-19	943-44	37 Šõbhana .	38 Krödhin ,	22

1 Ārya Siddhānta, mean system.

					T OF THE	MEN	NCE	dME.	COM				
Kali year.					MEAN LUNI-S				YHAR.	SOL	RAN S	Mı	
	a (here-t, the index of the tithi).	ıy.	Week-da	nth,	Day and mo	čsha-	me o n Mo nkrá	mea	sek-day.	2000	th,	Day and month	
1	23		20	*	19		17		14	1		13	
						S.	M.	Н.					
4021	119-8706		6 Fri.	1.5	5 Mar. (64)	0	30	21	Ved		100	Mar. (83) .	
4022	154-5102		5 Thur.		23 Mar. (83)	30	42	3	hi.	. (35	Mar. (84) .	
4023	30-1936		2 Mon.		12 Mar. (71)	0	55	9	at		0	Mar. (83) .	
4024	244-5089	2	0 Sat.	17	2 Mar. (61)	30	7	16	un	1	12	Mar. (83) .	
4025	279-1485	v	6 Fri.		21 Mar. (80)	0	20	22	ion.	. 2		Mar. (83) .	
4026	154-8319	٠	3 Tues.	7.0	9 Mar. (69)	30	32	:4:	Ved	8	(4)	Mar. (84) .	
4027	30-5153	2	0 Sat.		26 Feb. (57)	0	45	10	'hur	0 3		Mar. (83) .	
4028	65-1549	0	6 Fri.		17 Mar. (76)	30	57	16	ri		050	Mar. (83) .	
4029	279-4701	:	4 Wed.	2	7 Mar. (66)	0	10	23	at	. (100	Mar. (83) .	
4030	155-1535		1 Sun.	-	24 Feb. (55)	30	22	5	Ion			Mar. (84) .	
4031	189-7932	2	0 Sat.	-14	14 Mar. (73)	0	35	11	lues.	3 3	027	Mar. (83) .	
4032	65-4765		4 Wed.	14	3 Mar. (62)	30	47	17	Ved	4		Mar. (83) .	
4033	100-1162	ē	3 Tues.	*	22 Mar. (81)	0	0	0	ri	. ((4)	Mar. (84) .	
4034	314-4314		1 Sun.		11 Mar. (71)	30	12	6	lat	. ((+)	Mar. (84) .	
4035	190-1148	*	5 Thur.		28 Feb. (59)	0	25	12	ian	. 1	10	Mar. (83) .	
4036	224-7544		4 Wed.		19 Mar. (78)	30	37	18	Ion		istr	Mar. (83) .	
4037	100-4378		1 Sun.	4	8 Mar. (67)	0	50	0	Ved	4	-	Mar. (84) .	
4038	3!4-7531	8	6 Fri.		26 Feb. (57)	30	2	7	hur.	1	1121	Mar. (84) .	
4039	10-7698	21	4 Wed.	14	15 Mar. (74)	0	15	13	ri	. 6	1645	Mar. (83) .	
4040	225-0661	1	2 Mon.		5 Mar. (64)	30	27	19	at	. (5043	Mar. (83) .	
4041	259-7156	*:	1 Sun.		24 Mar. (83)	0	40	1	fon	. 3	. *	Mar. (84) .	
4042	135-3991		5 Thur.		12 Mar. (72)	30	52	7	ues.			Mar. (84) .	
4043	11-0825		2 Mon.		1 Mar. (60)	0	5	14	Ved	1		Mar. (83) .	
4044	45-7222	-	1 Sun.		20 Mar. (79)	50	17	20	hur.	. 1		Mar. (83) .	
4045	280.0474		8 Fri.		10 Mar. (69)	9	30	2	at.	9	1	Mar (84) .	

CONCURRENT YEAR.	-								
Rali. Saka					CONCU	RRENT Y	EAR.		
1	Kali.	Saka.	haitrādi Vikrama.	4	Kollam.	A.D.	Southern	Northern	Intercalated (adhika) lunar
4046 867 1002 351 119-20 *944-45 38 Krödhin . 39 Viśvāvasu . 5 Srāvaņa† . 4047 868 1003 352 120-21 945-46 39 Viśvāvasu . 40 Parābhava 4048 869 1004 353 121-22 946-47 40 Parābhava . 41 Plavaṅga 4049 870 1005 354 122-23 947-48 41 Plavaṅga . 42 Kīlaka . 1 Chaitra . 4050 871 1006 355 123-24 *948-49 42 Kīlaka . 43 Saumya 4051 872 1007 356 124-25 949-50 43 Saumya	-	-		-	-		a	7	- Sa
4047 868 1003 352 120-21 945-46 39 Višvāvasu 40 Parābhava 4048 869 1004 353 121-22 946-47 40 Parābhava 41 Plavanga 4040 870 1005 354 122-23 947-48 41 Plavanga 42 Kilaka 1 Chaitra 4050 871 1006 355 123-24 *948-49 42 Kilaka 43 Saumya 4051 873 1008 357 125-26 950-51 44 Sādhārana 45 Virōdhakrit	1	2	3	30	4	.0	0		- 00
4048 869 1004 353 121-22 948-47 40 Parābhava 41 Plavanga 4040 870 1005 354 122-23 947-48 41 Plavanga 42 Kīlaka 1 Chaitra 4050 871 1006 355 123-24 *948-49 42 Kīlaka 43 Saumya 4051 872 1007 356 124-25 949-50 43 Saumya 44 Sādhārana .10 Pausha 4052 873 1008 357 125-26 950-51 44 Sādhāraņa 45 Virōdhakrit 465 877 1010 359 127-28 *952-53 46 Paridhāvin 47 Pramādin 48 Ānanda 49 Rākshasa 4057 878 1013 362 130-31 <t< td=""><td>4046</td><td>867</td><td>1002</td><td>351</td><td>119-20</td><td>*944-45</td><td>38 Krödhin .</td><td>39 Viśvāvasu .</td><td>5 Srávana† .</td></t<>	4046	867	1002	351	119-20	*944-45	38 Krödhin .	39 Viśvāvasu .	5 Srávana† .
4040 870 1005 354 122-23 947-48 41 Plavanga . 42 Kilaka . 1 Chaitra 4050 871 1006 355 123-24 *948-49 42 Kilaka . 43 Saumya	4047	868	1003	352	120-21	945-46	39 Višvāvasu .	40 Parabhava .	994
4050 871 1006 355 123-24 *948-49 42 Kilaka	4048	869	1004	353	121-22	946-47	40 Parabhava .	41 Plavanga .	and the second
4051 872 1007 356 124-25 949-50 43 Saumya. .44 Sādhārana .10 Pausha 4052 873 1008 357 125-26 950-51 44 Sādhāraņa .45 Virōdhakrit 4053 874 1009 358 126-27 951-52 45 Virōdhakrit 46 Paridhāvin 4054 875 1010 359 127-28 *952-53 46 Paridhāvin 47 Pramādin 6 Bhādrapada 4055 876 1011 360 128-29 953-54 47 Pramādin 48 Ānanda 4056 877 1012 361 129-30 954-55 48 Ānanda 49 Rākshasa 4057 878 1013 362 130-31 955-56 49 Rākshasa 50 Anala 3 Jyēshtha 4059 889 1014 363 131-32 </td <td>4049</td> <td>870</td> <td>1005</td> <td>354</td> <td>122-23</td> <td>947-48</td> <td>41 Plavanga .</td> <td>42 Kilaka</td> <td>1 Chaitra .</td>	4049	870	1005	354	122-23	947-48	41 Plavanga .	42 Kilaka	1 Chaitra .
4052 873 1008 357 125-26 950-51 44 Sādhāraņa . 45 Virôdhakṛit . 4053 874 1009 358 126-27 951-52 45 Virôdhakṛit . 46 Paridhāvin . 4054 875 1010 359 127-28 *952-53 46 Paridhāvin . 47 Pramādin . 6 Bhādrapada 4055 876 1011 360 128-29 953-54 47 Pramādin . 48 Ānanda . 4056 877 1012 361 129-30 954-55 48 Ānanda . 49 Rākshasa . 4057 878 1013 362 130-31 955-56 49 Rākshasa . 50 Anala . 3 Jyēshtha . 4058 879 1014 363 131-32 *956-57 50 Anala . 51 Pingala . . 11 Māgha . 4060 881 1016 365 133-34 958-59 52 Kālayukta . 53 Siddhārthin . . .	4050	871	1006	355	123-24	*948-49	42 Kilaka	43 Saumya	
4053 874 1009 358 126-27 951-\$\bar{S}2\$ 45 Vir\bar{O}dhakrit . 46 Paridh\bar{a}\vert{vir}	4051	872	1007	356	124-25	949-50	43 Saumya	44 Sādhārana .	10 Pausha .
4054 875 1010 359 127-28 *952-53 46 Paridhāvin . 47 Pramādīn . 6 Bhādrapada 4055 876 1011 360 128-29 953-54 47 Pramādīn . 48 Ānanda	4052	873	1008	357	125-26	950-51	44 Sådhäraņa	45 Virôdhakrit .	***
4055 876 1011 360 128-29 953-54 47 Pramādin . 48 Ānanda	4053	874	1009	358	126-27	951-52	45 Virôdhakrit .	46 Paridhāvin .	46
4056 877 1012 361 129-30 954-55 48 Ānanda . 49 Rākshasa . 4057 878 1013 362 130-31 955-56 49 Rākshasa . 50 Anala . 3 Jyēshtha . 4058 879 1014 363 131-32 *956-57 50 Anala . 51 Pingala . 4059 889 1015 364 132-33 957-58 51 Pingala . 52 Kālayukta . 11 Māgha . 4060 881 1016 365 133-34 958-59 52 Kālayukta . 53 Siddhārthin . 4061 882 1017 366 134-35 959-60 53 Siddhārthin . 54 Raudra . 4062 883 1018 367 135-36 *960-61 54 Raudra . 55 Durmati . 8 Kārttika 4063 884 1019 368 135-37 961-62 55 Durmati . 56 Dundubhi . . . <td>4054</td> <td>875</td> <td>1010</td> <td>359</td> <td>127-28</td> <td>*952-53</td> <td>46 Paridhāvin</td> <td>47 Pramādin .</td> <td>6 Bhādrapada</td>	4054	875	1010	359	127-28	*952-53	46 Paridhāvin	47 Pramādin .	6 Bhādrapada
4057 878 1013 382 130-31 955-56 49 Rākshasa . 50 Anala . 3 Jyēshtha . 4058 879 1014 363 131-32 *956-57 50 Anala . 51 Pingala . 4059 880 1015 364 132-33 957-58 51 Pingala . 52 Kālayukta . 11 Māgha . 4060 881 1016 365 133-34 958-59 52 Kālayukta . 53 Siddhārthin . 4061 882 1017 368 134-35 959-60 53 Siddhārthin . 54 Raudra 4062 883 1018 367 135-36 *960-61 54 Raudra . 55 Durmati . 8 Kārttika 4063 884 1019 368 136-37 961-62 55 Durmati . 56 Dundubhi 4064 885 1020 369 137-38 962-63 56 Dundubhi . 57 Rudhirōdgārin 4065 887 1022 371 139-40 *964	4055	876	1011	360	128-29	953-54	47 Pramādin .	48 Ānanda	***
4058 879 1014 363 131-32 *956-57 50 Anala 51 Pingala 4059 880 1015 364 132-33 957-58 51 Pingala 52 Kälayukta 11 Mägha 4060 881 1016 365 133-34 958-59 52 Kälayukta 53 Siddhärthin 4061 882 1017 366 134-35 959-60 53 Siddhärthin 54 Raudra 4062 883 1018 367 135-36 *960-61 54 Raudra 8 Kärttika 4063 884 1019 368 136-37 961-62 55 Durmati 56 Dundubhi 4064 885 1020 369 137-38 962-63 56 Dundubhi 57 Rudhirödgärin 4065 886 1021 370 138-39 963-64 57 Rudhirödgärin 58 Raktäksha 4 Āshāḍha 4067 888 1023 372 140-41 965-86 59 Krōdhana 10 Kshaya	4056	877	1012	361	129-30	954-55	48 Ånanda .	49 Rākshasa .	
4059 880 1015 364 132-33 957-58 51 Pingala . 52 Kālayukta . 11 Māgha . 4060 881 1016 365 133-34 958-59 52 Kālayukta . 53 Siddhārthin .	4057	878	1013	362	130-31	955-56	49 Rākshasa .	50 Anala	3 Jyështha .
4060 881 1016 365 133-34 958-59 52 Kålayukta 53 Siddhärthin 4061 882 1017 366 134-35 959-60 53 Siddhärthin 54 Raudra 4062 883 1018 367 135-36 *960-61 54 Raudra 55 Durmati 8 Kärttika 4063 884 1019 368 136-37 961-62 55 Durmati 56 Dundubhi 4064 885 1020 369 137-38 962-63 56 Dundubhi 57 Rudhirödgärin 4065 886 1021 370 138-39 963-64 57 Rudhirödgärin 58 Raktäksha 4 Äshädha 4067 888 1023 372 140-41 965-86 59 Krödhana 10 Kshaya 4068 889 1024 373 141-42 966-67 60 Kshaya 1 Prabhava 1 Chaitra 4080 890 1025 374	4058	879	1014	363	131-32	*956-57	50 Anala . ,	51 Pingala .	
4061 882 1017 368 133-35 959-60 53 Siddhārthin . 54 Raudra . 4062 883 1018 367 135-36 *960-61 54 Raudra . 55 Durmati . 8 Kārttika . 4063 884 1019 368 136-37 961-62 55 Durmati . 56 Dundubhi . 4064 885 1020 369 137-38 962-63 56 Dundubhi . 57 Radhirōdgārin 4065 886 1021 370 138-39 963-64 57 Rudhirōdgārin 58 Raktāksha . 4 Āshāḍha 4666 887 1022 371 139-40 *964-65 58 Raktāksha . 59 Krōdhana . 4067 888 1023 372 140-41 965-86 59 Krōdhana . 10 Kshaya . 4068 889 1024 373 141-42 966-67 60 Kshaya . 1 Prabhava . 1 Chaitra 4080 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava . <td>4059</td> <td>880</td> <td>1015</td> <td>364</td> <td>132-33</td> <td>957-58</td> <td>51 Pingala .</td> <td>52 Kālayukta .</td> <td>11 Māgha .</td>	4059	880	1015	364	132-33	957-58	51 Pingala .	52 Kālayukta .	11 Māgha .
4062 883 1018 367 135-36 *960-61 54 Raudra . 55 Durmati . 8 Kärttika 4063 884 1019 368 136-37 961-62 55 Durmati . 56 Dundubhi . 4064 885 1020 369 137-38 962-63 56 Dundubhi . 57 Rudhirōdgārin 4065 886 1021 370 138-39 963-64 57 Rudhirōdgārin 58 Raktāksha . 4 Āshāḍha 4666 887 1022 371 139-40 *964-65 58 Raktāksha . 4067 888 1023 372 140-41 965-86 59 Krōdhana . 4068 889 1024 373 141-42 966-67 60 Kshaya . 1 Prabhava . 1 Chaitra 4080 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava .	4060	881	1016	365	133-34	958-59	52 Kālayukta .	53 Siddhārthin .	
4063 884 1019 368 136-37 961-62 55 Durmati . 56 Dundubhi . 4064 885 1020 369 137-38 962-63 56 Dundubhi . 57 Rudhirödgärin 4065 886 1021 370 138-39 963-64 57 Rudhirödgärin 58 Raktäksha . 4 Äshädha 4666 887 1022 371 139-40 *964-65 58 Raktäksha . 4067 888 1023 372 140-41 965-86 59 Krödhana 4068 889 1024 373 141-42 966-67 60 Kshaya 1 Prabhava 1 Chaitra 4080 890 1025 374 142-43 967-68 1 Prabhava 2 Vibhava	4061	882	1017	366	134-35	959-60	53 Siddharthin .	54 Raudra .	3995
4064 885 1020 369 137-38 962-63 56 Dundubhi . 57 Rudhirōdgārin 4065 886 1021 370 138-39 963-64 57 Rudhirōdgārin 58 Raktāksha . 4 Āshāḍha 4666 887 1022 371 139-40 *964-65 58 Raktāksha . 59 Krōdhana . 4067 888 1023 372 140-41 965-86 59 Krōdhana . . 4068 889 1024 373 141-42 966-67 60 Kshaya . 1 Prabhava . 1 Chaitra 4080 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava .	4062	883	1018	367	135-36	*969-61	54 Raudra .	55 Durmati .	8 Kärttika .
4065 886 1021 370 138-39 963-64 57 Rudhirōdgārin 58 Raktāksha . 4 Āshādha 4666 887 1022 371 139-40 *964-65 58 Raktāksha 4067 888 1023 372 140-41 965-86 59 Krōdhana 4068 889 1024 373 141-42 966-67 60 Kshaya . 1 Prabhava . 1 Chaitra 4080 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava . .	4063	884	1010	368	136-37	961-62	55 Durmati .	56 Dundubhi .	***
4666 887 1022 371 139-40 *964-65 58 Raktāksha . 19 Krēdhana 4667 888 1023 372 140-41 965-86 59 Krēdhana . 10 Kshaya 4668 889 1024 373 141-42 966-67 60 Kshaya . 1 Prabhava . 1 Chaitra 4669 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava	4064	885	1020	369	137-38	962-63	56 Dandubhi .	57 Rudhirödgärin	
4067 888 1023 372 140-41 965-86 59 Kr6dhana . 0 Kshaya 4068 889 1024 373 141-42 966-67 60 Kshaya . 1 Prabhava . 1 Chaitra 4069 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava	4065	886	1021	370	138-39	963-64	57 Rudhirödgårin	58 Raktāksha .	4 Āshādha
4068 889 1024 373 141-42 966-67 60 Kshaya . 1 Prabhava . 1 Chaitra 4060 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava	4666	887	1022	373	139-40	*964-65	58 Raktūksha .	59 Krödhana .	***
4080 890 1025 374 142-43 967-68 1 Prabhava . 2 Vibhava	4007	888	1023	372	140-41	965-86	59 Krôdhana .	to Kshaya .	(***
	4068	889		373	141-42	966-67	60 Kshaya .	1 Prabhava .	1 Chaitra
4070 891 1028 375 143-44 *968-69 2 Vibhava , 3 Sukla , 9 Märgasira .	4060	890	1025	374	142-43	967-68	1 Prabhava .	2 Vibhava .	
		246-2534		375	143-44	*968-69	2 Vibhava .	3 Sukla	9 Mārgašira .

[†] By the " Indian Calendar" the intercalated month was 4 Ashādha.

1 Ārya Siddhānta, mean system.

		003	IME	NCE	MEN	T OF THE			
Мя	AN S	OLAR YEAR.				MEAN LUNI-SOLAR CIVIL DAY ON WHIC			
Day and mont	h,	Week-day.	mee	ime in Mi nkrå	isha-	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	Kali year.
13		14	9	17		19	20	23	1
24 Mar. (84) .		1 Sun	H.	M. 42	S. 30	27 Feb. (58) .	3 Tues, .	135-7207	4046
24 Mar. (83) .		2 Mon	14	55	0	17 Mar. (76) .	2 Mon. ,	170-3603	4047
24 Mar. (83) .		3 Tues	21	7	30	6 Mar. (65) .	6 Fri	46-0436	4018
25 Mar. (84) .	1	5 Thur	3	20	0	24 Feb. (55) .	4 Wed.	260-3590	4049
24 Mar. (84) .		6 Fri	9	32	30	14 Mar. (74) .	3 Tues.	294-9986	4050
24 Mar. (83) .		0 Sat	15	45	0	3 Mar. (62) .	0 Sat	170-6819	4051
24 Mar. (83) .	×	1 Sun	21	57	30	22 Mar. (81) .	6 Fri	205-3216	4052
25 Mar. (84) .		3 Tues	4	10	0	11 Mar. (70) .	3 Tues	81-0049	4053
24 Mar. (84) .		4 Wed	10	22	30	29 Feb. (60) .	1 Sun	295-3203	4054
24 Mar. (83) .		5 Thur	16	35	0	19 Mar. (78) .	0 Sat	329-9599	4055
24 Mar. (83) .	-	6 Fri	22	47	30	8 Mar. (67) .	4 Wed	205-6432	4056
25 Mar. (84) .	¥	1 Sun	5	0	0	25 Feb. (56) .	1 Sun	81-3266	4057
24 Mar. (84) .	*	2 Mon	11	12	30	15 Mar. (75) .	0 Sat	115-9662	4058
24 Mar. (83) .	×	3 Tues	17	25	0	5 Mar. (64) .	5 Thur	330-2815	4059
24 Mar. (83) .		4 Wed	23	37	30	23 Mar. (82) .	3 Tues	26-2892	4060
25 Mar. (84) .		6 Fri	5	50	0	13 Mar. (72) .	1 Sun	240-6045	4061
24 Mar. (84) .		0 Sat	12	2	30	1 Mar. (61) .	5 Thur	116-2879	4062
24 Mar. (83) .		1 Sun	18	15	0	20 Mar. (79) .	4 Wed.	150-9275	4063
25 Mar. (84) .	*	3 Tues	0	27	30	9 Mar. (68) .	1 Sun	26-6109	4064
25 Mar. (84) .		4 Wed	6	40	0	27 Feb. (58) .	6 Fri	240-9262	4065
24 Mar. (84) .	100	5 Thur	12	52	30	17 Mar. (77) .	5 Thur	275-5658	4065
24 Mar. (83) .		6 Fri	19	5	0	6 Mar. (65) .	2 Mon	151-2451	4067
25 Mar. (84) .		1 Sen	1	17	39	23 Feb. (51) .	t Fri	26-9325	4068
25 Mar. (84) .		2 Mon. ,	7	30	0	14 Mar. (73) .	5 Thur	61-5721	4069
24 Mar. (84) .	*	3 Tues	13	42	30	3 Mar. (63) .	3 Tues .	275-8874	4070

TABLE

				CONCU	RRENT YE	IAR.	wego.	
Kali.	Saka.	Chaitrădi Viltrama.	Meshādi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	Northern system.	Mean Intervalated (adhika) lunar month.
1.	2	3	3a	4	5	6	7	84
4071 4072 4073 4074 4075	892 893 894 895	1027 1028 1029 1030	376 377 378 379 380	144-45 145-46 146-47 147-48 148-49	969-70 970-71 971-72 *972-73 973-74	3 Sukia	4 Pramoda . 5 Prajāpati . 6 Angiras . 7 Srimukha .	6 Bhādrapada
4076	897	1032	381	149-50	974-75	8 Bhāya	9 Yuvan	2 Vaišākha .
4077	898	1033	382	150-51	975-76	9 Yuvan	10 Dhātri	W
4078	899	1034	383	151-52	*976-77	10 Dhātri	11 Isvara	11 Māgha
4079	900	1035	384	152-53	977-78	Il Isvara	12 Bahudhānya .	
4080	901	1036	385	153-54	978-79	12 Bahudhänya .	13 Pramādin .	***
4081	902	1037	386	154-55	979-80	13 Pramādin .	14 Vikrama .	8 Kārttika † .
4082	903	1038	387	155-56	*980-81	14 Vikrama .	15 Vrisha	
4083	904	1039	388	156-57	981-82	15 Vrisha	16 Chitrabhānu .	
4084	905	1040	389	157-58	982-83	16 Chitrabhānu .	17 Subhānu .	4 Āshāḍha .
4085	906	1041	390	158-59	983-84	17 Subhānu .	18 Tāraņa	***
4086	907	1042	391	159-60	*984-85	18 Tāraņa	19 Pārthiva .	22
4087	908	1043	392	160-61	985-86	19 Pärthiva .	20 Vyaya	1 Chaitra .
4088	909	1044	393	161-62	986-87	20 Vyaya	21 Sarvajit .	W.
4089	910	1045	394	162-63	087-88	21 Sarvajit .	22 Sarvadhārin .	9 Märgasira .
4090	911	1046	395	163-04	*988-39	22 Sarvadhārin .	23 Virodhin .	
4091	912	1047	396	164-65	989-90	23 Virödhin .	24 Vikrita ‡ .	***
4092	913	1048	397	165-66	990-91	24 Vikrita	26 Nandana .	6 Bhādrapada
4093	914	1049	398	166-67	991-92	25 Khara	27 Vijaya	1100
4094	915	1050	399	167-68	*992-93	26 Nandana .	28 Jaya , .	***
409.5	916	1051	400	168-69	993-94	27 Vijaya	29 Manmatha .	2 Vaišākha .

[†] By the "Indian Calendar" 7 Asvina was intercalated. † 25 Khara was expunged in the north by the mean system, but 26 Nandana by the true system. By the true system the year A.D. 990-91 was, in the north, called "Khara."

1 Ārya Siddhānta, mean system.

		001	име	NCE	MEN	T OF THE							
MEA	MEAN SOLAR YEAR. MEAN LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CRAITEA SUKLA 1 ENDS).												
Day and month, A.D.		Week-day.	Time of mean Mesha- samkranti.			Day and month, A.D.	Week-da	y.	a (here=1, the index of the tithi).				
13		14		17		19	20		23	1			
	П		H.	M.	S.	category many	W 650		Distribution of the Control of the C	751.550			
24 Mar. (83) .		4 Wed	19	55	0	22 Mar. (81) .	2 Mon.	WG	310-5271	4071			
25 Mar. (84) .	•	6 Fri.	2	7	30	11 Mar. (70) .	6 Fri.	•	186-2104	4072			
25 Mar. (84) .	(6)	0 Sat	8	20	0	28 Feb. (59) .	3 Tues.	*	61-8939	4073			
24 Mar. (84) .	٠	1 Sun.	14	32	30	18 Mar. (78) .	2 Mon.		96-5335	4074			
24 Mar. (83) .	5	2 Mon	20	45	0	8 Mar. (67) .	0 Sat.		310-8487	4075			
25 Mar. (84) .		4 Wed	2	57	30	25 Feb. (56) .	4 Wed.		186-5321	4076			
25 Mar. (84) .	0	5 Thur	9	10	0	16 Mar. (75) .	3 Tues.	al.	221-1716	4077			
24 Mar. (84) .	4	6 Fri	15	22	30	4 Mar. (64) .	0 Sat.	*5	96-8550	4078			
24 Mar. (83) .	ž.	0 Sat	21	35	0	23 Mar. (82) .	6 Fri.	4)	131-4946	4079			
25 Mar. (84) .	×	2 Mon	3	47	30	12 Mar. (71) .	3 Tues.	*	7-1781	4080			
25 Mar. (84) .	*1	3 Tues, .	10	0	0	2 Mar. (61) .	1 Sun.	×.	221-4933	4081			
24 Mar. (84) .	*7	4 Wed	16	12	30	20 Mar. (80) .	0 Sat.		256-1329	4082			
24 Mar. (83) .	8	5 Thur	22	25	0	9 Mar. (68) .	4 Wod.		131-8163	4083			
25 Mar. (84) .		0 Sat	4	37	30	26 Feb. (57) .	1 Sun.	•	7-1998	4084			
25 Mar. (84) .	*	1 Sun.	10	50	0	17 Mar. (76) .	0 Sat.	4	41-1393	4085			
24 Mar. (84) .		2 Mon	17	2	30	6 Mar. (66) .	5 Thur.		256-4546	4086			
24 Mar. (83) .		3 Tues	23	15	0	23 Feb. (54) .	2 Mon.	٠	132-1379	4087			
25 Mar. (84) .	3.5	5 Thur	5	27	30	14 Mar. (73) .	1 Sun.		166-7776	4088			
25 Mar. (84) .	•:	6 Fri	11	40	0	3 Mar. (62) .	5 Thur.		42-4610	4089			
24 Mar. (84) .	*0	0 Sat	17	52	30	21 Mar. (81) .	4 Wed.		77:1006	4090			
25 Mar. (84) .	*:	2 Mon	0	5	0	11 Mar. (70) .	2 Mon.		291-4158	4091			
25 Mar. (84) .		3 Tues	6	17	30	28 Feb. (5θ) .	6 Fri.	4	167-0992	409.2			
25 Mar. (84) .	2	4 Wed	12	30	0	19 Mar. (78) .	5 Thur.		201-7399	4093			
24 Mar. (84) .		5 Thur	18	42	30	7 Mar. (67)	2 Mon.		77-4222	4004			
25 Mar. (84) .		0 Sat	0	55	0	25 Feb. (56) .	0 Sat.		291-7375	4095			

	11			CON	CURRENT	YEAR.	Eatly and	
Kali.	Saka.	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	Jovian S. Southern system.	Northern system.	Mean Interculated (adhika) lunar month.
1	2	3	30	4	5	6	7	8a
4096 4097 4098 4099	917 918 919 920	1052 1053 1054 1055	401 402 403 404	169-70 170-71 171-72 172-73	994-95 995-96 *996-97 997-98	28 Jaya 29 Manmatha	30 Durmukha . 31 Hēmalamba . 32 Vilamba . 33 Vikārin .	11 Mågha
4100	921	1056	405	173-74	998-99	32 Vilamba .	34 Sărvarin .	7 Asvina .
4101	922	1057	406	174-75	*1000-01	33 Vikārin ,	35 Plava	277
4102	924	1058	408	176-77	1001-02	34 Sărvarin . 35 Plava .	36 Šubhakrit . 37 Šõbhana .	4 Āshādha
4104	925	1060	409	177-78	1002-03	36 Subhakrit	00 Tr = 11 T	
4105	926	1061	410	178-79	1003-04	37 Söbhana	39 Višvāvasu .	12 Phälguna .
4106	927	1062	411	179-80	*1004-05	38 Krödhin	40 Parabhaya .	···
4107	928	1063	412	180-81	1005-06	39 Višvāvasu .	41 Plavanga	
4108	929	1064	413	181-82	1006-07	40 Parābhava	42 Kilaka	9 Mārgasira .
4109	930	1065	414	182-83	1007-08	41 Plavanga .	43 Saumya .	The state of the s
4110	931	1066	415	183-84	*1008-09	42 Kilaka	44 Sādhāraņa .	2000
4111	932	1067	416	184-85	1009-10	43 Saumya .	45 Virôdhakrit .	5 Śrāvaņa .
4112	933	1068	417	185-86	1010-11	44 Sādhāraņa .	46 Paridhāvin .	
4113	934	1069	418	186-87	1011-12	45 Virödhakrit .	47 Pramādin .	
4114	935	1070	419	187-88	*1012-13	46 Paridhāvin .	48 Ānanda .	2 Valšākha .
4115	936	1071	420	188-89	1013-14	47 Pramādin .	49 Rākshasa .	122
4116	937	1072	421	189-90	1014-15	48 Ananda .	50 Anala	10 Pausha
4117	938	1073	422	190-91	1015-16	49 Rākshusu .	51 Pingala .	200 W
4118	930	1074	423	191-92	*1016-17	50 Anala	52 Kálayukta .	
4119	940	1075	424	192-93	1017-18	51 Piágala .	53 Siddhärthin .	7 Asvina .
4120	941	1076	425	193-94	1018-19	52 Kālaynkta .	54 Raudra .	

LXXVI-Contd.

1 Ārya Siddhānta, mean system.

	-		-	-	-		-	,	a Siddhānta, n	
			OMM	ENC	EM	ENT OF THE	251			
Mi	EAN !	SOLAH YEAR.				MEAN LUNI-SOLAR CIVIL DAY ON WHIC	SUNRISH OF RLA I ENDS).	Kali year.		
Day and mon A.D.	th.	Week-day.	mea	me c n Mê nkrăr	sha-	Day and month, A.D.	Week-day.		a (here-t, the index of the tithi).	
13		14		17	Ī	19	20		23	1
		.*	H.	M.	S.					
25 Mar. (84) .	1	I Sun	7	7.	30.	16 Mar. (75) .	6 Fri.		326-3771	4098
25 Mar. (84) .	2)	2 Mon	13	20	0	5 Mar. (64) .	3 Tues.	10	202-0605	4097
24 Mar. (84) .		3 Tues	19	32	30	23 Mar. (83) .	2 Mon.	16	236-7001	4098
25 Mar. (84) .		5 Thur	1	45	0	12 Mar. (71) .	6 Fri.	3	112-3825	4090
25 Mar. (84) .		6 Fri	7	57	30	2 Mar. (61) .	4 Wed.	19	326-6988	4100
25 Mar. (84) .		0 Sat	14	10	0	20 Mar. (79) .	2 Mon.		22-7065	4101
24 Mar. (84) .		1 Sun	20	22	30	9 Mar. (69) .	0 Sat.		237-0218	4102
25 Mar. (84) .		3 Tues	2	35	0	26 Feb. (57) ,	4 Wed.	17.0	112-7052	4103
25 Mar. (84) .		4 Wed	8	47	30	17 Mar. (76) .	3 Tues.	1	147-3448	4104
25 Mar. (84) .		5 Thur	15	0	0	6 Mar. (65) .	0 Sat.	10	23-0272	4105
24 Mar. (84) .		6 Fri	21	12	30	24 Mar. (84) .	6 Fri.	040	57-6667	4106
25 Mar. (84) .	*):	1 Sun	3	25	0	14 Mar. (73) .	4 Wed.	24	271-9831	4107
25 Mar. (84) .		2 Mon	9	37	30	3 Mar. (62) .	1 Sun.		147-6665	4108
25 Mar. (84) .		3 Tues	15	50	0	22 Mar. (81) .	0 Sat.		182-3061	4109
24 Mar. (84) .		4 Wed.	22	2	30	10 Mar. (70) ,	4 Wed.	24	57-9894	4110
25 Mar. (84) .	-	6 Fri	4	15	0	28 Feb. (59) .	2 Mon.	56)	272-3047	4111
25 Mar. (84) .	-	0 Sat	10	27	30	19 Mar. (78) .	1 Sun.	1563	306-9444	4112
25 Mar. (84) .		1 Sun.	16	40	0	8 Mar. (67) .	5 Thur.	(30)	182-6277	4113
24 Mar. (84) .		2 Mon	22	52	30	25 Feb. (56) .	2 Mon.	1009	58-3111	4114
25 Mar. (84) .		4 Wed	5	5	0	15 Mar. (74) .	1 Sun.		92-9507	4115
25 Mar. (84) .		5 Thur.	11		30	5 Mar. (64) .	6 Fri.	1.00	307-2659	4116
25 Mar. (84) .	2	6 Fri.	17	30	0	23 Mar. (82) .	4 Wed.	13	3-2737	4117
24 Mar. (84) .	-	0 Sat.	1000	42	30	12 Mar. (72) .	2 Mon.		217-5800	4118
25 Mar. (84) .		2 Mon.	5	55	0	1 Mar. (60) .	6 Fri.		93-2723	4119
25 Mar. (84) .		3 Tues.	12		30	20 Mar. (79) .	5 Thur.		127-9119	4120
				-				100	1	-

TABLE

	T			CONC	URRENT Y	EAR.		
Kali.	Saka.	Chaiteadi Vikrama.	Meshādi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	ÁVATSARA. Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	Sa
4121 4122 4123 4124 4125	942 943 944 945 946	1077 1078 1079 1080 1081	426 427 428 429 430	194-95 195-96 196-97 197-98 198-99	* 1019-20 *1020-21 1021-22 1022-23 1023-24	53 Siddhārthin . 54 Raudra . 55 Durmati . 56 Dundubhi . 57 Rudhirōdgārin	55 Durmati . 56 Dundubhi . 57 Rudhirödgårin 58 Raktāksha . 59 Krödhana .	4 Ashāḍha ‡
4126	947	1082	431	199-200	- Contraction	58 Raktāksha .	60 Kshaya	100
4127 4128 4129	948 949 950	1083 1084 1085	432 433 434	200-01 201-02 202-03	1025-26 1026-27 1027-28	59 Krödhana . 60 Kshaya .	1 Prabhava . 2 Vit-hava . 3 Sukla	9 Märgašīra .
4130	951	1086	435	203-04	*1028-29	2 Vibhava	4 Pramôda	5 Śrāvaņa .
4131	952	1087	436	204-05	1029-30	3 Sukla	5 Prajāpati .	o Stavaņa .
4132	953	1088	437	205-06	1030-31	4 Pramoda .	6 Angiran .	
4133	954	1089	438	206-07	1031-32	5 Prajāpati .	7 Srimukha .	2 Vaisākha .
4134	955	1090	439	207-08	*1032-33	6 Angiras .	8 Bhāva	
4135	956	1091	440	208-09	1033-34	7 Srimukha	9 Yuvan . ,	10 Pausha .
4136	957	1092	441	209-10	1034-35	8 Bháva	10 Dhatri	
4137	958	1093	442	210-11	1035-36	9 Yuvan	II Išvara	
4138	959	1094	443	211-12	*1036-37	10 Dhātri	12 Bahudhānya .	7 Āšvina .
4139	960	1095	444	212-13	1037-38	11 Iśvara	13 Pramādin .	
4140	961	1006	445	213-14	1938-39	12 Bahudhānya .	14 Vikrama .	
4141	962	1007	446	214-15	1039-40	13 Pramādin .	15 Vrisha	3 Jyeshiba .
4142	963	1008	447	215-16	*1040-41	14 Vikrama .	16 Chitrabhann .	***
4143	964	1099	448	216-17	1041-42	15 Vrishs	17 Subhānu .	12 Phälgura
4144	965	1100	449	217-18	1042-43	16 Chitrabhanu .	18 Tāraņa	in house
4148	986	1101	450	218-19	1043-44	17 Sublānu .	19 Parthiva .	
-	-	-			re on the	ov 9 Testablish		

³ By the " Infian Calendar" 3 Jyeshtha was intercalated.

1 Ārya Siddhānta, mean system,

			соми	MEN	CEM	ENT OF THE		Ī		
Mi	EAN	SOLAR YEAR.		4		MEAN LUNI-SOLAR CIVIL DAY ON WHI	Kali year.			
Day and mont	h,	Week-day.	me	ime o in Mé inkråi	aha-	Day and month, A.D.	Week-d	lay.	a (here-t, the index of the tithi).	
13		14		17		19	20		23	1
25 Mar. (§4) . 25 Mar. (85) .		4 Wed 6 Fri	H. 18 0	M. 20 32	S. 0 30	9 Mar. (68) . 27 Feb. (58) .	2 Mon. 0 Sat.	- 90	3:5953 217-8106	4121
25 Mar. (84) .		0 Sat. ,	6	45	0	17 Mar. (76) .	6 Fri.		252-5502	4123
25 Mar. (84) .		1 Sun	12	57	30	6 Mar. (65) .	3 Tues.	10	128-2336	4124
25 Mar. (84) .	¥	2 Mon	19	10	0	25 Mar. (84) .	2 Mon.		162-8732	4125
25 Mar. (85) .		4 Wed	1	22	30	13 Mar. (73) .	6 Fri.	100	38-5566	4126
25 Mar. (84) .	*	5 Thur	7	35	0	3 Mar. (62) .	4 Wed.	(A)	252-8719	4127
25 Mar. (84) .		6 Fri.	13	47	30	22 Mar, (81) .	3 Tues.	346	287-5115	4128
25 Mar. (84) .		0 Sat	20	0	0	11 Mar. (70) .	0 Sat.	55	163-1948	4129
25 Mar. (85) .	2	2 Mon	2	12	30	28 Feb. (59) .	4 Wed.	25/	38-8782	4130
25 Mar. (84) .	•	3 Tues	8	25	0	18 Mar. (77)	3 Tues.	50	73-5179	4131
25 Mar. (84) .		4 Wed	14	37	30	8 Mar. (67) .	1 Sun.		287-8331	4132
25 Mar. (84) .		5 Thur	20	50	0	25 Feb. (56) .	5 Thur.	-	163-5165	4133
25 Mar. (85) .	*	0 Sat	3	2	30	15 Mar. (75) .	4 Wed.	9	198-1561	4134
25 Mar. (84) .	10	1 Sun	9	15	0	4 Mar. (63) .	1 Sun.	0	73-8395	4135
25 Mar. (84) .	10	2 Mon	15	27	30	23 Mar. (82) .	0 Sat.	2	108-4791	4136
25 Mar. (84) .	*	3 Tues	21	40	0	13 Mar. (72)	5 Thur.		322-7944	4137
25 Mar. (85) .	3	5 Thur	3	52	30	1 Mar. (61) .	2 Mon. 1 Sun.	0	198-4778 233-1174	4138
25 Mar. (84) .	*	6 Fri.	10	5	20	20 Mar. (79) .	5 Thur.		The second second	
25 Mar. (84) . 25 Mar. (84) .		0 Sat	16		30	9 Mar. (68)	3 Tues.	•	108-8008 323-1161	4140
25 Mar. (84) .		1 Sun 3 Tues	22	30	30		1 Sun.	*	19-1238	4142
25 Mar. (84) .			10	55	0	6 Mar. (65) .	6 Fri.		233-4391	4143
25 Mar. (84)	*	5 Thur	17		30	25 Mar. (84) .	5 Thur.		268-0787	4144
25 Mar. (84)	2.0	6 Fri.	23	20	0	14 Mar (73)	2 Mon.	-	143-7621	4145
		200200 1102	Part.	0.0				- /4		

				CONCU	RRENT Y	EAR,		
Kali.	Saka.	Chaitridi Vikrama,	Meshidi solar year in Bengal.	Kollam.	A.D.	Jovian S Southern system.	Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	8a
4146 4147 4148	967 968 969	1102 1103 1104	451 452 453	219-20 220-21 221-22	*1044-45 1045-46 1046-47	18 Tárana	20 Vyaya 21 Sarvajit	8 Kärttika .
4149	970	1105 1106	454	222-23 223-24	1047-48	21 Sarvajit . 22 Sarvadhārin .	23 Virôdhin . 24 Vikrita	5 Śrāvaņa .
4151	972	1107	456	224-25	1049-50	23 Virôdhin .	25 Khara	200
4152	973 974	1108 1109	457	225-26	1050-51	24 Vikrita	26 Nandana .	1 Chaitra
4154	975	1110	458	226-27 227-28	*1051-52 *1052-53	25 Khara 26 Nandana .	27 Vijaya	10 Pausha .
4155	978	1111	460	228-29	1053-54	27 Vijaya	29 Manmatha .	***
4156	977	1112	461	229-30	1054-55	28 Jaya	30 Durmukha .	***
4158	979	1113	462	230-31	*1056-57	29 Manmatha	31 Hēmalamba	7 Āśvina† .
4159	980	1115	464	232-33	1057-58	31 Hēmalamba .	33 Vikārin	***
4160	981	1116	465	233-34	1058-59	32 Vilamba .	34 Sarvarin .	3 Jyeshtha .
1162	982	1117	466	234-35	1059-60	33 Vikārin .	35 Plava	***
4163	984	1119	468	235-36	*1060-61 1061-62	34 Sărvarin	36 Subhakrit . 37 Sobhana .	12 Phälguna .
4164	985	1120	469	237-38	1062-63	36 Subhakrit	38 Krödhin .	***
4165	986	1121	470	238-39	1063-64	37 Sobhana .	39 Višvāvasu .	8 Kärttika .
4106	987	1152	471	239-40	*1064-65	38 Krödhin .	40 Parabhava .	·**
4168	988	1123	472	240-41	1065-66 1066-67	39 Višvāvasu — . 40 Parābhava .	41 Plavanga .	- 0 -
4169	990	1125	474	242-43	1007-68	40 Parabhava	42 Kilaka	ō Srāvaņa .
4170	102	1126	475	243-44	*1068-69	42 Kilaka	44 Sādhāran	

⁷ By tno "Indian Calendar" 6 Bhadrapada was the intercalated month

LXXVI-Contd.

1 Ārya Siddhānta, mean system.

			ENT OF THE	OMMENCEMI	c						
Kali year.		MEAN SOLAR YEAR. MEAN LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITEA SUKLA 1 ENDS).									
	a (here=t, the index of the tithi).	Week-day.	Day and month, A.D.	Time of mean Mēsha- samkrānti.	Week-day.	h,	Day and mont A.D.				
1	23	20	19	17	14		13				
4146	19-4454	6 Fri	2 Mar. (62) .	H. M. S. 5 32 30	1 Sun.	202	25 Mar. (85) .				
4147	54-0850	5 Thur	21 Mar. (80) .	11 45 0	2 Mon	(*)	25 Mar. (84) .				
4148	268-4003	3 Tues	11 Mar. (70) .	17 57 30	3 Tues	D)	25 Mar. (84) .				
4149	144-0838	0 Sat	28 Feb. (59) .	0 10 0	5 Thur		26 Mar. (85) .				
4150	178:7233	6 Fri.	18 Mar. (78) .	6 22 30	6 Fri	1	25 Mar. (85) .				
4151	54-4067	3 Tues	7 Mar. (66) .	12 35 0	0 Sat		25 Mar. (84) .				
4152	268-7219	I Sum.	25 Feb. (56) .	18 47 30	1 Sun		25 Mar. (84) .				
4153	303-3615	0 Sat	16 Mar. (75) .	1 0 0	3 Tues		26 Mar. (85) .				
4154	179-0449	4 Wed	4 Mar. (64) .	7 12 30	4 Wed	10	25 Mar. (85) .				
4155	213-6845	3 Tues	23 Mar. (82) .	13 25 0	5 Thur		25 Mar. (84) .				
4156	89-2679	0 Sat	12 Mar. (71) ,	19 37 30	6 Fri		25 Mar. (84) .				
4157	303-6832	5 Thur	2 Mar. (61) .	1 50 0	1 Sun		26 Mar. (85) .				
4158	9999-6909 ş	3 Tues	19 Mar. (79) .	8 2 30	2 Mon	le.	25 Mar. (85) .				
4159	214-0062	1 Sun	9 Mar. (68) .	14 15 0	3 Tues	6	25 Mar. (84) .				
4160	89-6896	5 Thur	26 Feb. (57) .	20 27 30	4 Wed	-63	25 Mar. (84) .				
4161	124-3292	4 Wed	17 Mar. (76) .	2 40 0	6 Fri		26 Mar. (85) .				
4162	0.0126	1 Sun	5 Mar. (65) .	8 52 30	0 Sat	•	25 Mar. (85) .				
4163	34-6522	0 Sat	24 Mar. (83) .	15 5 0	1 Sun		25 Mar. (84) .				
4164	218-9675	5 Thur	14 Mar. (73) .	21 17 30	2 Mon	-	25 Mar. (84) .				
4165	124-6508	2 Mon	3 Mar. (62) .	3 30 0	4 Wed		26 Mar. (85) .				
4166	159-2900	1 Sun	21 Mar. (81) .	9 42 30	5 Thur	*	25 Mar. (85) .				
4167	34-9739	5 Thur	10 Mar. (69) .	15 55 0	6 Fri	٠	25 Mag. (84) .				
4108	249-2892	3 Tues	28 Feb. (59) .	22 7 30	0 Sat		25 Mar. (84) .				
4169	283-9288	2 Moo	19 Mar. (78) .	4 20 0	2 Mon		26 Mar. (85) .				
4170	159-8122	6 Fri	7 Mar. (67) .	10 32 30	3 Tues		25 Mar. (85) .				

[§] As a mean tithi Chaitra Sukla I was expunged. The civil day corresponding to it, i.e., the first day of the luni-solar year was as given in cols. 19, 20.

TABLE

				CONCU	RRENT YE	EAR.		
Kali.	Saka.	Chaitradi Vikrama.	Meshidi solar year in Bengal.	Kollam.	A.D.	JOVIAN S. Southern system.	Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	8a
4171 4172	992 993	1127 1128	476 477	244-45 245-46	1069-70 1070-71	43 Saumya . 44 Sādhāraņa .	45 Virödhakrit . 46 Paridhāvin .	1 Chaitra
4173	994 995	1129 1130	478 479	246-47 247-48	1071-72 *1072-73	45 Virôdhakrit . 46 Paridhāvin .	47 Pramādin . 48 Ānanda .	10 Pausha
4175	996	1131	480 481	248-49 249-50	1073-74 1074-75	47 Pramādin . 48 Ānanda .	49 Rākshasa . 50 Annla	6 Bhādrapads
4177	998	1133	482	250-51	1075-76	49 Räkshasa .	51 Pingala † .	· ··
4178	1000	1134 1135	483 484	251-52 252-53	*1076-77 1077-78	50 Anala	53 Siddhärthin . 54 Bandra	3 Jyéshiha
4180	1001	1136 1137	485 486	253-54 254-55	1078-79 1079-80	52 Kâlayukta . 53 Siddhârthin .	55 Durmati	11 Māgha
4182	1003	1138	487	255-56	*1080-81	54 Raudra .	57 Rudhirödgárin	6662
4183	1004	1139 1140	488 489	256-57 257-58	1081-82	55 Durmati . 56 Dundubhi .	58 Raktāksha . 59 Krōdhana .	8 Kärttika
4185 4186	1006	1141 1142	490 491	258-59 259-60	1083-84 *1084-85	57 Rudhirödgärin 58 Ruktāksha	60 Kshaya .	711
4187	1008	1143	492	260-61 261-62	1085-86 1086-87	59 Krōdhana . 60 Kshaya .	2 Vibhava	4 Åshādha
+188 4189	1010	1144	493 494	262-63	1087-88	1 Prabhava .	4 Pramôda ,	***
4190	1011 1012	1146	495 496	263-64 264-65	*1088-89 1089-90	2 Vibhava	5 Prajāpati . 6 Aŭgiras .	1 Chaitra
4192	1013	1148	497	265-66	1090-91	4 Pramôda 5 Prajúpati	7 Śrimukha .	9 Magagira .
4194	1014	1149	498	267-68	*1092-93	6 Angiras	9 Yuvan	***
4195	1016	1151	500	268-69	1093-94	7 Śrimukha .	10 Dhātri	6 Bhādrapada

+ 52 Kalayukta was suppressed in the north.

1 Ārya Siddhānta, mean system.

		0	OMM	EN	CEM	ENT OF THE			
Мил	AN 8	OLAH YEAR.				MEAN LUNI-SOLAR CIVIL DAY ON WHIC	YEAR (MEAS II CHAITEA SU	SUNRISE OF KLA I ENDS).	Kali year.
Day and month	1.	Week-day.	mea	me n Me	sha-	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13	_	14		17	-	19	20	23	1
			н.	M.	S.				
25 Mar. (84) .	٠	4 Wed	16	45	0	24 Feb. (55) .	3 Tues	35-29-55	4171
25 Mar. (84) .		5 Thur	22	57	30	15 Mar. (74) .	2 Mon	69-9351	4172
26 Mar. (85)	*	0 Sat	5	10	0	5 Mar. (64) .	0 Sat	284-2504	4173
25 Mar. (85) .		1 Sun	11	22	30	23 Mar. (83) .	6 Fri.	318-8901	4174
25 Mar. (84) .	ě	2 Mon	17	35	:.0:	12 Mar. (71) .	3 Tues	194-5734	4175
25 Mar. (84) .		3 Tues	23	47	30	1 Mar. (60) .	0 Sat	70-2568	4176
26 Mar. (85) .		5 Thur	6	0	0	20 Mar. (79) .	6 Fri	104-8964	4177
25 Mar. (85) .		6 Fri	12	12	30	9 Mar. (69) .	4 Wed	319-2116	4178
25 Mar. (84) .		0 Sat	18	25	0	26 Feb. (57) .	1 Sun	194-8950	4179
26 Mar. (85) .		2 Mon	0	37	30	17 Mar. (76) .	0 Sat	229-5347	4180
26 Mar. (85) .		3 Tues	6	50	0	6 Mar. (65) .	4 Wed.	105-2180	4181
25 Mar. (85) .	1	4 Wed.	13	2	30	24 Mar. (84) .	3 Tues	139-8576	4182
25 Mar. (84) .		5 Thur	19	15	0	13 Mar. (72) .	0 Sat	15-5410	4183
26 Mar. (85) .	y.	0 Sat	1	27	30	3 Mar. (62) .	5 Thur	229-8563	4184
26 Mar. (85) .		1 Sun	7	40	0	22 Mar. (81) .	4 Wed	264-4959	4185
25 Mar. (85) .		2 Mon	13	52	30	10 Mar. (70) .	1 Sun	140-1793	4186
25 Mar. (84) .		3 Tues	20	5	0	27 Feb. (58) .	5 Thur	15-8627	4187
26 Mar. (85) .	9	5 Thur	2	17	30	18 Mar. (77) .	4 Wed	50-5023	4188
26 Mar. (85) .	1	6 Fri	8	30	0	8 Mar. (67) .	2 Mon	264-8176	4189
25 Mar. (85) .	2	0 Sat	14	42	30	25 Feb. (56) .	6 Fri	140-5009	4190
25 Mar. (84) .		1 Sun	20	55	0	15 Mar. (74) .	5 Thur.	175-1405	4191
26 Mar. (95) .		3 Tues	3	7	30	4 Mar. (63) .	2 Mon.	50-8239	4192
26 Mar. (85) .		4 Wed	9	20	0	23 Mar. (82) .	1 Sun.	87-4636	4192
25 Mar. (85) .		5 Thur	15	32	30	12 Mar. (72) .	8 Fri.	200-7788	4194
25 Mar. (84) .		6 Fri.	21	45	0	I Mar. (60) .	3 Tues.	178 4625	4195

TABLE

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				CONCUR	RENT YE	AR.		
Kali.	Saka.	Chaitradi Vikrama.	Meshadi solar year in Bengal.	Kollam.	A.D.	Jovian Sai	Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	8a
4196 4197	1017	1152	501 502	269-70 270-71 271-72	1094-95 1095-96 *1096-97	8 Bhāva 9 Yuvan	11 Iśvara	 3 Jyështha† .
4198	1019	1154	503	272-73	1097-98	11 Isvara	14 Vikrama	***
4199	1020	1155	504	273-74	1008-99	12 Bahudhānya .	15 Vrisha	11 Māgha .
4200 4201	1022	1157	506	274-75	1099-00	13 Pramādin .	16 Chitrabhānu .	
4202	1023	1158	507	275-76	*1100-01	14 Vikrama .	17 Subhānu .	
4203	1024	1159	508	276-77	1101-02	15 Vrisha	18 Tāraņa .	8 Kārttika .
4204	1025	1160	509	277-78	1102-03	16 Chitrabhanu .	19 Pärthiva	
4205	1026	1161	510	278-79	1103-04	17 Subhānu .	20 Vyaya	344
4206	1027	1162	511	279-80	*1104-05	18 Táraga	21 Sarvajit .	4 Āshādha .
4207	1028	1163	512	280-81	1105-06	19 Parthiva .	22 Sarvadhārin .	
4208	1029	1164	513	281-82	1106-07	20 Vyaya	23 Virôdhin .	
4209	1030	1165	514	282-83	1107-08	21 Sarvajit .	24 Vikṛita	1 Chaitra .
4210	1031	1166	515	283-84	*1108-09	22 Sarvadhārin .	25 Khara	***
4211	1032	1167	516	284-85	1109-10	23 Virðdhin .	26 Nandana .	9 Mārgašira .
4212	1033	1168	517	285-86	1110-11	24 Vikrita	27 Vijaya	1 - 1 - 1 - 1
4213	1034	1169	518	286-87	1111-12	25 Khara	28 Jaya	322
4214	1035	1170	519	287-88	*1112-13	26 Nandana .	29 Manmatha .	6 Bhādrapada
4215	1036	1173	520	288-89	1113-14	27 Vijaya	30 Durmukha .	120
4216	1037	1172	521	289.90	1114-15	28 Jaya	31 Hēmalamba	944
4217	1038	1173	522	290-91	1115-16	29 Manmatha .	32 Vilamba .	2 Vaisakha
4215	1039	1174	523	291-92	*1116-17	30 Durmukha .	33 Vikārin .	***
4219	1010	1175	324	292-93	1117-18	31 Hēmalamba .	34 Sărvarin	11 Māgba .
4220	1041	1176	525	203-94	1118-19	32 Vilambs .	35 Plava	9,000

† By the "Indian Calendar" 2 Valšākha was intercalated.

LXXVI-Contd.

1 Årya Siddhänta, mean system.

		CO	MMEN	CEM	EN	T OF THE			
Ma	us s	OLAR YEAR.				MEAN LUNI-SOLAR CIVIL DAY ON WHIC		Kali year.	
Day and month	1,	Week-day.	mean	me of Měsk kränti	200	Day and month, A.D.	Week-day.	a (here—t, the index of the tithi).	
_ 13		14		17		19	20	23	. 1
26 Mar. (85) . 26 Mar. (85) . 25 Mar. (85) . 25 Mar. (84) . 26 Mar. (85) . 26 Mar. (85) . 26 Mar. (85) . 25 Mar. (84) . 26 Mar. (85) . 25 Mar. (85) .		1 Sun	3 10 16 22 4 11 17 23 5	57 3 10 22 3 35 47 3 0 12 3 25	0 0 0 0 0 0 0 0 0	20 Mar. (79) . 9 Mar. (68) . 27 Feb. (58) . 16 Mar. (75) . 6 Mar. (65) . 25 Mar. (84) . 13 Mar. (73) . 2 Mar. (61) . 21 Mar. (80) . 11 Mar. (70) .	2 Mon 6 Fri 4 Wed 2 Mon 6 Fri 6 Fri 7 Tues 6 Fri 4 Wed 1 Son 6	210-1018 85-7852 300-1005 9996-1082† 210-4235 245-0630 120-7464 9996-4298† 31-0694 245-3847 121-0681	4196 4197 4198 4199 4200 4201 4202 4203 4204 4205 4206
26 Mar. (85) . 26 Mar. (85) . 26 Mar. (85) .	1 (4) (A)	1 Sun 2 Mon 3 Tues	6	27 3	0	18 Mar. (77)	0 Sat 4 Wed 2 Mon	155-7077 31-3911 245-7063	4207 4208 4209
25 Mar. (85) . 26 Mar. (85) . 26 Mar. (85) . 26 Mar. (85) .		4 Wed 6 Fri 0 Sat 1 Sun	1 7 13	17 3 30	0	15 Mar. (75) . 4 Mar. (63) . 23 Mar. (82) . 12 Mar. (71) . 1 Mar. (61) .	1 Sun	280-3460 156-0293 190-6690 66-3524 280-6676	4210 4211 4212 4213 4214
25 Mar. (85) . 26 Mar. (85) . 26 Mar. (85) . 26 Mar. (85) . 25 Mar. (85) .		2 Mon 4 Wed 5 Thur 6 Fri 0 Sat	1 8 14	7 3 20	0	20 Mar. (79) . 9 Mar. (68) . 26 Feb. (57) . 16 Mar. (76) .	5 Thur 2 Mon 6 Fri 5 Thur	315-3072 190-9905 66-6740 101-3136	4215 4216 4217 4218
26 Mar. (85) . 26 Mar. (85) .	*	2 Mon 3 Tues	1		0	6 Mar. (65) . 24 Mar. (83) .	3 Tues	315-6288 11-6365	4219 4220

[†] As a mean tithi Chaitra sukla I was expunged. The civil day corresponding to it, s.e., the first day of the luni-solar year, was as given in cols. 19, 20,

TABLE

				CONCUR	RENT YE	AR.	S-36-	
Kali.	Saka.	Chaitridi Vikrama.	Meshadi solar year in Bengal.	Kollam.	A.D.	Jovian Sar Southern system,	Northern system.	Mean Intercalated (adhika) lunar month.
1.	2	3	3a	4	5	6	7	8a
4221 4222 4223 4224 4225	1042 1043 1044 1045 1046	1177 1178 1179 1180 1181	526 527 528 529 530	294-95 295-96 296-97 297-98 298-99	1119-20 *1120-21 1121-22 1122-23 1123-24	33 Vikārin . 34 Sārvarin . 35 Plava 36 Subhakrit . 37 Sōbhana .	36 Subhakrit . 37 Söbhana . 38 Krödhin . 39 Viśvāvasu . 40 Parābhava .	7 Aśvina 4 Āshāḍha
4226	1047	1182	531	299-00	*1124-25	38 Krôdhin .	41 Plavanga .	***
4227	1048	1183	532	300-01	1125-26	39 Viávāvasu .	42 Kilaka	12 Phälguna
4228	1049	1184	533	301-02	1126-27	40 Parābhava .	43 Saumya .	
4229	1050	1185	534	302-03	1127-28	41 Plavanga .	44 Sādhāraņa .	340
4230	1051	1186	535	303-04	*1128-29	42 Kilaka	45 Virodhakrit .	9 Mārgašira
4231	1052	1187	536	304-05	1129-30	43 Saumya .	46 Paridhavin .	
4232	1053	1188	537	305-06	1130-31	44 Sådhårana .	47 Pramādin .	1444
4233	1054	1189	538	306-07	1131-32	45 Virôdhakrit .	48 Ānanda .	6 Bhādrapad
4234	1055	1190	539	307-08	*1132-33	46 Paridhāvin .	49 Rākshasa .	/800
4235	1056	1191	540	308-09	1133-34	47 Pramādin .	50 Anals	***
4236	1057	1192	541	309-10	1134-35 1135-36	48 Ānanda . 49 Rākshasa .	51 Pingala .	2 Vaišākha
4237 4238	1059	1194	543	311-12	*1136-37	50 Anala	52 Kālayukta . 53 Siddhārthin .	11 Magha
4239	1060	1195	544	312-13		51 Pingala .	54 Raudra	1770
4240	1061	1196	545	313-14	1138-39	52 Kälayukta .	SE Dissert	***
4241	1062	1197	546	314-15	1139-40	53 Siddharthin .	56 Dundubhi .	7 Asvina
4242	1063	1198	547	315-16	*1140-41	54 Raudra	57 Rudhirodgarin	
4243	1064	1199	548	316-17	1141-42	55 Durmati .	58 Raktālisha .	***
4244	1065	1200	549	317-18	1142-43	56 Dundubhi .	59 Krodhana .	4 Āshādha
4245	1066	1201	550	319-19	1143-44	57 Rudhirödgárin	60 Kshava	***

1 Ārya Siddhānta, mean system.

			ENT OF THE	OMMENCEM	С		
Kali yea			MEAN LUNI-SOLAR CIVIL DAY ON WHIC		OLAR YEAR.	AN S	Ми
	a (here=t, the index of the tithi).	Week-day.	Day and month, A.D.	Time of mean Mësha- samkranti.	Week-day.	b.	Day and mont
1	23	20	19	17	14		13
				H. M. S.			
4221	225-9518	6 Fri	14 Mar. (73) .	15 10 0	4 Wed		26 Mar. (85) .
4222	101-6352	3 Tues	2 Mar. (62) .	21 22 30	5 Thur	*	25 Mar. (85) .
4223	136-2748	2 Mon. 7	21 Mar. (80)	3 35 0	0 Sat	ž	26 Mar. (85) .
4224	11-9582	6 Fri.	10 Mar. (69) .	9 47 30	1 Sun	*	26 Mar. (85) .
4225	226-2735	4 Wed.	28 Feb. (59) .	16 0 0	2 Mon		26 Mar. (85) .
4226	260-9131	3 Tues	18 Mar. (78) .	22 12 30	3 Tues	*	25 Mar. (85) .
4227	136-5965	0 Sat	7 Mar. (66) .	4 25 0	5 Thur	٠	26 Mar. (85) .
4228	171-2360	6 Fri	26 Mar. (85) .	10 37 30	6 Fri		26 Mar. (85) .
4229	46-9195	3 Tues	15 Mar. (74) .	16 50 0	0 Sat	5	26 Mar. (85) .
4230	261-2348	I Sun	4 Mar. (64) .	23 2 30	1 Sun.	•	25 Mar. (85) .
4231	295-8744	0 Sat	23 Mar. (82) .	5 15 0	3 Tues	-	26 Mar. (85) .
4232	171-5578	4 Wed	12 Mar. (71)	11 27 30	4 Wed		26 Mar. (85) .
4233	47-2411	1 Sun.	1 Mar. (60) .	17 40 0	5 Thur	-01	26 Mar. (85) .
4234	81-8807	0 Sat	19 Mar. (79) .	23 52 30	6 Fri	*.	25 Mar. (85) .
4235	296-1960	5 Thur	9 Mar. (68) .	6 5 0	1 Sun	**	26 Mar. (85) .
4236	171-8794	2 Mon	26 Feb. (57) .	12 17 30	2 Mon	*	26 Mar. (85) .
4237	206-5190	1 Sun	17 Mar. (76) .	18 30 0	3 Tues	•	26 Mar. (85) .
4238	82-2024	5 Thur	5 Mar. (65) .	0 42 30	5 Thur	100	26 Mar. (86) .
4239	116-8420	4 Wed	24 Mar. (83) .	6 55 0	6 Fri	194	26 Mar. (85) .
4240	331-1573	2 Mon	14 Mar. (73) .	13 7 30	0 Sat	101	26 Mar. (85) .
4241	206-8407	6 Fri	3 Mar. (62) .	19 20 0	1 Sun	-	26 Mar. (85) .
4242	241-4893	5 Thur	21 Mar. (81) .	1 32 30	3 Tues		26 Mar. (86) .
4243	117-1637	2 Mon	10 Mar. (69) .	7 45 0	4 Wed		26 Mar. (85) .
4244	331-4790	0 Sat	28 Feb. (59) .	13 57 30	5 Thur	10	26 Mar. (85) .
4245	27-4867	5 Thur	18 Mar. (77) .	20 10 0	6 Frf	. 1	26 Mar. (85) .

TABLE

	T			CONCUI	RENT YE	AR.		
Kali.	Salea.	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	JOVIAN SA Southern system.	Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	Su
4246 4247 4248	1067 1068 1069	1202 1203 1204	551 552 553	319-20 320-21 321-22	*1144-45 1145-46 1146-47	58 Raktāksha . 59 Krōdhana . 60 Kshaya .	1 Prabhava . 2 Vibhava . 3 Sukla	12 Phälguna
4249	1070	1205	554	322-23	1147-48	1 Prabhava .	4 Pramoda .	9 Märgaáira .
4250	1071	1206	555	323-24	*1148-49	2 Vibhava .	5 Prajapati .	
4251	1072	1207	556	324-25	1149-50	3 Śukia	6 Angiras .	-
4252	1073	1208	557	325-26	1150-51	4 Pramôda .	7 Śrimukha .	5 Srāvaņa .
4253	1074	1200	558	326-27	1151-52	5 Prajāpati .	8 Bhāva , .	
4254	1075	1210	559	327-28	*1152-53	6 Angiras .	9 Yuvan	
4255	1076	1211	560	328-29	1153-54	7 Śrimukha .	10 Dhātri	2 Valšākha .
4256	1077	1212	561	329-30	1154-55	8 Bhāva	11 Iśvara . ,	nic.
4257	1078	1213	562	330-31	1155-56	9 Yuvan	12 Bahudhānya .	10 Pausha .
4258	1079	1214	563	331-32	*1156-57	10 Dhătri	13 Pramādin ,	***
4259	1080	1215	564	332-33	1157-58	11 Iśvara	14 Vikrama .	
4260	1081	1216	565	333-34	1158-59	12 Bahudhānya .	15 Vrisha	7 Asvina .
4261	1082	1217	566	334-35	1159-60	13 Pramādin .	16 Chitrabhānu .	w
4262	1083	1218	567	335-36	*1160-61	14 Vikrama .	17 Subhānu† .	1101
4263	1084	1219	568	336-37	1161-62	15 Vrishn	19 Pārthiva .	3 Jyështha .
4264	1085	1220	569	337-38	1162-63	16 Chitrabhānu .	20 Vyaya	200
4265	1086	1221	570	338-39	1163-64	17 Subhānu .	21 Sarvajit ,	12 Phälguna .
4266	1087	1222	571	339-40	*1164-65	18 Tāraņa	22 Sarvadhārin ,	
4267	1088	1223	572	340-41	1165-66	19 Pärthiya .	23 Virðdhin	
4268	1089	1224	873	341-42	1166-67	20 Vyaya	24 Vikrita	8 Kārttika .
4269	1090	1225	574	342-43	1167-68	21 Sarvajit .	25 Khara	***
4270	1091	1226	575	343-44	*1168-69	22 Sarvadhārin .	26 Nandana .	

† 18 Tarana was suppressed in the north.

1 Ārya Siddhānta, mean system.

			ENT OF THE	OMMENCEMI	o	
Kali year.			MEAN LUNI-SOLAR CIVIL DAY ON WHIC		SOLAR YEAR.	MEAN :
	a (here—t, the index of the tithi).	Week-day.	Day and month, A.D.	Time of mean Mesha- samkränti.	Week-day.	Day and month, A.D.
1	23	20	19	17	14	13
				H. M. S.		
4246	241-8019	3 Tues	7 Mar. (67) .	2 22 30	1 Sun.	26 Mar. (86)
4247	276-4415	2 Mon.	26 Mar. (85) .	8 35 0	2 Mon	26 Mar. (85)
4245	152-1249	6 Fri	15 Mar. (74) .	14 47 30	3 Tues	26 Mar. (85)
4249	27-8084	3 Tues	4 Mar. (63) .	21 0 0	4 Wed	26 Mar. (85)
4250	62-4479	2 Mon.	22 Mar. (82) .	3 12 30	6 Fri	26 Mar. (86)
4251	276-7631	0 Sat	12 Mar. (71) .	9 25 0	0 Sat	26 Mar. (85)
425z	152-4465	4 Wed.	1 Mar. (60) .	15 37 30	1 Sun.	26 Mar. (85)
4253	187-0861	3 Tues.	20 Mar, (79)	21 50 0	2 Mon	26 Mar. (85)
4254	62-7695	0 Sat	8 Mar. (68)	4 2 30	4 Wed	26 Mar. (86)
4255	277-0848	5 Thur	26 Feb. (57) .	10 15 0	5 Thur	26 Mar. (85)
4256	311-7245	4 Wed	17 Mar. (76) .	16 27 30	6 Fri	26 Mar. (85)
4257	187-4078	1 Sun	6 Mar. (65) .	22 40 0	0 Sat	26 Mar. (85)
4258	222-0474	0 Sat	24 Mar. (84) .	4 52 30	2 Mon	26 Mar. (86)
4259	98-1308	4 Wed	13 Mar. (72) .	11 5 0	3 Tues	26 Mar. (85)
4160	312-0461	2 Mon	3 Mar. (62) .	17 17 30	4 Wed	26 Mar. (85)
4261	8-0538	0 Sat	21 Mar. (80) .	23 30 0	5 Thur	26 Mar. (85)
4262	222-3691	5 Thur	10 Mar. (70) .	5 42 30	0 Sat	26 Mar. (86)
4263	98-4525	2 Mon	27 Feb. (58) .	11 55 0	I Sun.	26 Mar. (85) , .
4264	132-6822	1 Sun.	18 Mar. (77) .	18 7 30	2 Mon	26 Mar. (85)
4266	8-3755	5 Tour.	7 Mar. (66) .	0 20 0	4 Wed.	27 Mar. (86)
4260	43-0151	4 Wed	25 Mar. (85) .	6 32 30	5 Thur.	26 Mar. (86)
4267	257-3504	2 Mon	15 Mar. (74) .	12 45 0	6 Fri	26 Mar. (85)
4268	133-0138	6 Fri	4 Mar. (63) .	18 57 30	0 Sat	26 Mar, (85)
4260	167-6454	5 Thur	23 Mar. (82) .	1 10 0	2 Mon	27 Mar (86)
4270	43-3368	2 Mon	11 Mar. (71) .	7 22 30	3 Tues	26 Mar (86)

TABLE.

				CONCU	RRENT YI	EAR.		
Kali.	Saka.	Chaitradi Vikrama,	Möshiidi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3.4	4	5	6	7	8a
4271 4272 4273	1092 1093 1094	1227 1228 1220	576 577 578	344-45 345-46 346-47	1169-76 1170-71 1171-72	23 Virôdhin	27 Vijaya	5 Śrāvaņa
4274	1095	1230 1231	579 580	347-48	*1172-73	26 Nandana . 27 Vijava	30 Durmukha . 31 Hēmalambo .	2 Vaišākha .
4276	1097	1232	581	349-50	1174-75	27 Vijaya	32 Vilamba .	10 Pausha .
4277	1098	1233	582	350-51	1175-76	29 Manmatha .	33 Vikārin .	***
4278	1099	1234	583	351-52	*1176-77	30 Durmukha .	34 Sărvarin ,	914
4279	1100	1235	584	352-53	1177-78	31 Hēmalamba .	35 Plava	7 Asvina .
4280	1101	1236	585	353-54	1178-79	32 Vilamba .	36 Subhakrit .	
4281	1102	1237	586	354-55	1179-80	33 Vikārin .	37 Söbhana .	771
4282	1103	1238	587	355-56	*1180-81	34 Sārvarin .	38 Krödhin .	3 Jyështha .
4283	1104	1239	588	356-57	1181-82	35 Plava	39 Viśvāvasu .	***
4284	1105	1240	589	357-58	1182-83	36 Subhakrit .	40 Parābhava .	12 Phälguna .
4285	1106	1241	590	358-59	1183-84	37 Šõbhana .	41 Plavanga .	***
4286	1107	1242	591	359-60	*1184-85	38 Krödhin .	42 Kilaka	225
4287	1108	1243	592	360-61	1185-86	39 Višvāvasu .	43 Saumya .	8 Kärttika .
4288	1109	1244	593	361-62	1186-87	40 Parābhava .	44 Sādhāraņa .	***
4289	1110	1245	594	362-63	1187-88	41 Plavanga .	45 Virôdhakrit .	***
4290	1111	1246	595 206	363-64	*1188-89	42 Kilaka	46 Paridhāvin .	5 Srāvaņa .
4292	1113	1247	596	365-66	1189-90	43 Saumya .	47 Pramādin .	***
4293 -	1114	1249	598	366-67	1191-92	44 Sådhärana .	48 Ānanda .	3.70
4294	1115	1250	599	367-68	*1192-98	45 Virôdhakrit . 46 Paridhāvin .	49 Rākshasa	1 Chaitra .
4295	1116	1251	600	358-89	1193-94		50 Anala	***
7200		1.0	000	anary-tree	1100.01	47 Pramadin .	51 Pingala.	10 Pausha

1 Ārya Siddhānta, mean system.

	CO	MENCEMEN	T OF THE			
MEAN 3	OLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC			Kali year.
Day and month, A.D.	Week-day.	Time of mean Mesha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13	14	17	19	20	23	1
26 Mar. (85)	4 Wed	H. M. S. 13 35 0 19 47 30 2 0 0 8 12 30 14 25 0 20 37 30 2 50 0 9 2 30 15 15 0 21 27 30 3 40 0 9 52 30 16 5 0 22 17 30 4 30 0 10 42 30	19 1 Mar. (60) 20 Mar. (79) 9 Mar. (68) 26 Feb. (57) 16 Mar. (75) 6 Mar. (65) 25 Mar. (84) 13 Mar. (73) 2 Mar. (61) 21 Mar. (80) 11 Mar. (70) 28 Feb. (59) 18 Mar. (77) 7 Mar. (66) 26 Mar. (85) 14 Mar. (74)	0 Sat,	257-6521 292-2917 167-9751 43-6684 78-2981 292-6133 327-2528 202-9,72 78-6196 113-2593 327-5745 203-2579 237-8975 113-5809 148-2205 23-9039	1 4271 4272 4273 4274 4276 4276 4276 4277 4278 4270 4280 4281 4282 4283 4284 4285 4286
26 Mar. (85)	3 Tues	16 55 0	4 Mar. (63) .	2 Mon .	238-2192	4287
26 Mar. (85)	4 Wed 6 Fri	23 7 30 5 20 0	23 Mar. (82) . 12 Mar. (71) .	I Sun 5 Thur	272-8588 148-5422	4288
26 Mar. (86)	0 Sat	11 32 30	29 Feb. (60) .	2 Mor.	14-2256	4290
26 Mar. (85)	1 Sun	17 45 0	19 Mar. (78) .	1 Sun	58-8452	4291
26 Mar. (85)	2 Mon	23 57 30	9 Mar. (68) .	6 Fri .	273-1805	4292
27 Mar. (86)	4 Wed	6 10 0	26 Feb. (57) .	d Tues	145-8638	4293
26 Mar. (86)	5 Thur	12 22 30	16 Mar. (76) .	2 Mon.	183-5035	4294
26 Mar. (85)	6 Fri	18 35 0	5 Mar. (64) .	6 Fri.	59-1868	4295

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				CONCUI	BRENT YE	IAR.		
Kafi.	Saka.	Chaiteadi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	JOYIAN SA Southern system.	Northern system.	Mean Intercalated (adhika) lunar month.
. 1	2	3	3a	4	- 5	6	7	8.0
-	-	-	100		_	-		- 04
4296	1117	1252	601	369-70	1194-95	48 Ānanda .	52 Kālayukta .	
4297	1118	1253	602	370-71	1195-96	49 Rākshasa	53 Siddhärthin .	
4298	1119	1254	603	371-72	*1196-97	50 Anala	54 Randra .	6 Bhādrapada
4299	1120	1255	604	372-73	1197-98	51 Pingala .	55 Durmati .	1000
4300	1121	1256	605	373-74	1198-99	52 Kālayukta .	56 Dundubhi .	1994
4301	1122	1257	606	374-75	1199-00	53 Siddhärthin .	57 Rudhirödgárin	3 Jyështha
4302	1123	1258	607	375-76	*1200-01	54 Raudra .	58 Raktāksha .	***
4303	1124	1259	608	376-77	1201-02	55 Durmati .	59 Krôdhana .	11 Māgha .
4304	1125	1260	609	377-78	1202-03	56 Dundubhi .	60 Kshaya .	÷.,
4305	1126	1261	610	378-79	1203-04	57 Rudhirödgärin	1 Prabhava .	1442
1306	1127	1262	611	379-80	*1204-05	58 Raktāksha .	2 Vibhava .	8 Kārttika .
4307	1128	1263	612	380-81	1205-06	59 Krödhana .	3 Sukla	111
4308	1129	1264	613	381-82	1206-07	60 Kshaya .	4 Pramôda .	***
4309	1130	1265	614	382-83	1207-08	1 Prabhava .	5 Prajāpati .	5 Śrāvaņa .
4310	1131	1266	615	383-84	*1208-09	2 Vibhava .	6 Angiras .	
4311	1132	1267	616	384-85	1209-10	3 Sukla	7 Śrimukha .	
4312	1133	1268	617	385-86	1210-11	4 Pramôda .	8 Bhāva	1 Chaitra .
1313	1134	1269	618	386-87	1211-12	5 Prajāpati .	9 Yuvan	764
;314	1135	1270	619	387-88	*1212-13	6 Angiras .	10 Dhatri	10 Pausha .
4315	1136	1271	620	388-89	1213-14	7 Srimukha .	11 Iśvara	***
4216	1137	1272	621	389-90	1214-15	8 Bhāva	12 Bahudhānya .	
4317	1138	1973	622	390-91	1215-16	9 Yavan	13 Pramādin .	6 Bhādrapada
4318	1139	1274	623	391-92	*1216-17	10 Dhātri	14 Yikrama .	V.,
1319	1140	1275	624	392-93	217-18	11 Iávara	15 Vrisha	1000
1350	1141	1276	625	393-94	1218-19	12 Bahudhānya .	16 Chitrabhānu .	3 Jyeshtha .
===					-			

1 Arya Siddhānta, mean system.

		co	ммз	ENCI	EME	NT OF THE				
ME	AN I	SOLAR YEAR.				MEAN LUNI-SOLAR CIVIL DAY ON WHIE	SUNRISE OF RLA I ENDS).	Kali year.		
Day and mont	h,	Week-day,	me	imo an M mkrā	ëshu-	Day and month,	Week-da	ıy.	a (here=t, the index of the tithi).	Kali year. 1 4 4296 7 4207 4208
13		14		17		19	20		23	1
	Т		H.	M.	S,					
27 Mar. (86) .		1 Sun	0	47	30	24 Mar. (83) .	5 Thur.	:(2)	93-8264	4296
27 Mar. (86) .	*	2 Mon	7	0	0	14 Mar. (73) •	3 Tues.		308-1417	4297
26 Mar. (86) .		3 Tues	13	12	30	2 Mar. (62) .	0 Sat	20	183-8251	4298
26 Mar. (85) .	*	4 Wed.	19	25	0	21 Mar. (80) .	6 Fri.	Q.	218-4647	4299
27 Mar. (86) .	0	6 Fri	1	37	30	10 Mar. (69)	3 Tues.	Si.	94-1481	4300
27 Mar. (86) .	â	0 Sat	7	50	0	28 Feb. (59) .	1 Sun.		308-4634	4301
26 Mar. (86) .	*	1 Sun	14	2	30	17 Mar. (77) .	6 Fri.		4-4711	4302
26 Mar. (85) .	*/	2 Mon	20	15	0	7 Mar. (66)	4 Wed.	71	218-7864	4303
27 Mar. (86) .		4 Wed	2	27	30	26 Mar. (85) ,	3 Tues.		253-4359	4304
27 Mar. (86)	20	5 Thur	8	40	0	15 Mar. (74) .	0 Sat.		129-1094	4305
26 Mar. (86) .		6 Fri.	14	52	30	3 Mar. (63) .	4 Wed.	14	4-7927	4306
26 Mar. (85) .		0 Sat.	21	5	0	22 Mar. (81) .	3 Tues.	(a	39-4324	4307
27 Mar. (86) .	2	2 Mon	3	17	30	12 Mar. (71) .	1 Sun.		253-7477	4308
27 Mar. (86) .	*	3 Tues	9	30	0	1 Mar. (60) .	5 Thur.		129-4311	4300
26 Mar. (86) .	(K3)	4 Wed.	15	42	30	19 Mar. (79) .	4 Wed.		164-0707	4310
26 Mar. (85) .		5 Thur	21	55	0	8 Mar. (67) .	1 Sun.		39-7540	4311
27 Mar. (86) .		0 Sat	4	7	30	26 Feb. (57) .	6 Fri.	9	254-0693	4312
27 Mar. (86) .		1 Sun.	10	20	0	17 Mar. (76) .	5 Thur.	*	288-7089	4313
26 Mar. (86) .		2 Mon	16	32	30	5 Mar. (65) .	2 Mon.		164-3923	4314
26 Mar. (85) .		3 Tues.	22	45	0	24 Mar. (83) .	1 bun.		199-0319	4315
27 Mar. (86) .	160	5 Thur	4	57	30	15 Mar. (72) .	5 Thur.		74-7152	4316
27 Mar: (86) .	*	6 Fri	11	10	0	3 Mar. (62) .	3 Tues.		289-0306	4317
26 Mar. (86) .	10.0	0 Sat	17	99	30	21 Mar. (81) .	2 Mon.		323-6702	4318
26 Mar. (85) .		1 Sun.	23	35	0	10 Mar. (69) .	6 Fri.		199-3535	4319
27 Mar. (86) .		3 Tues.		47	30	27 Feb. (58) .	3 Tues.		75-0360	4320

TABLE

				CONCUR	RENT YE	AR.		
Kali.	Saka.	Chaitradi Vikrama.	Meshidi solar year in Bengal.	Kollam.	A.D.	Jovian San Southern system.	Northern system.	Mean Interculated (adhika) lunar month.
1	2	3	3α	4	.5	6	7	8a
4321 4322 4323	1142 1143 1144	1277 1278 1279	626 627 628	394-95 395-96 396-97	1219-20 *1220-21 1221-22	13 Pramāthin . 14 Vikrama . 15 Vrisha	17 Subhānu . 18 Tāraņa 19 Pārthiva .	 11 Māgha .
4324	1145	1280	629	397-98	1222-23	16 Chitrabhām .	20 Vyaya	:***
4325	1146	1281	630	398-99	1223-24	17 Subhānu .	21 Sarvajit .	8 Kärttika .
4326	1147	1282 1283	631	399-400 400-01	*1224-25 1225-26	18 Tāraņa	22 Sarvadhārin . 23 Virādhin .	569
4328	1149	1284	633	401-02	1226-27	20 Vyaya	24 Vikrita	4 Āshādha
4329	1150	1285	634	402-03	1227-28	21 Sarvajit .	25 Khara	744
4330	1151	1286	635	403-04	*1228-29	22 Sarvadhārin .	26 Nandana .	766
4331	1152	1287	636	404-05	1229-30	23 Virôdhin .	27 Vijaya	1 Chaitra .
4332	1153	1288	637	405-06	1230-31	24 Vikrita	28 Jaya	***
4333	1154	1289	638	406-07	1231-32	25 Khara	29 Manmatha .	9 Mārgašira .
4334	1155	1290	639	407-08	*1232-33	26 Nandana .	30 Durmukha .	***
4335	1156	1291	640	408-00	1233-34	27 Vijaya	31 Hēmalamba .	Table 1
4336	1157	1292	641	409-10	1234-35	28 Jaya	32 Vilamba	6 Bhādrapada
4338	1159	1293	642	410-11	1235-36 *1236-37	29 Manmatha . 30 Durmukha .	33 Vikārin . 34 Sārvarin .	704
4339	1160	1295	644	412-13	1237-38	31 Hēmalamba .	35 Plava	9 Valiation
4340	1161	1296	645	413-14	1238-39	32 Vilamba .	36 Subhakrit .	2 Vaisākha .
4341	1162	1297	646	414-15	1239-40	33 Vikārin .	37 Sõbhana	11 Mågba .
4342	1163	1298	647	415-16	*1240-41	34 Sărvarin .	38 Krődhin .	
4343	1164	1299	648	416-17	1241-42	35 Plava	39 Višvāvasu .	740
4344	1165	1300	649	417-18	1242-43	36 Subhakrit	40 Parabhava .	7 Āévica .
4345	1166	1301	650	418-19	1243-44	37 Söbhana	41 Plavanga .	

I.XXVI-Contd.

1 Ārya Siddhāt a, mean system.

		00	MMENCEMEN	OF THE			
Mr	EAN I	SOLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC	Kali year		
Day and mont	th,	Week-day.	Time of mean Mesha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13		14	17	19	20	23	1
27 Mar. (86) .		4 Wed.	H. M. S. 12 0 0	18 Mar. (77) .	2 Mon.	100-6765	4321
26 Mar. (86) .			18 12 30	7 Mar. (67)	0 Sat.	323-9918	4322
27 Mar. (86) .		0.00	0 25 0	25 Mar. (84) .	5 Thur.	19-9995	4323
27 Mar. (86) .		0 Sat	6 37 30	15 Mar. (74)	3 Tues.	234-3148	4324
27 Mar. (86) .		2 Mon.	12 50 0	4 Mar. (63)	0 Sat.	109-9982	4325
26 Mar. (86) .		3 Tues.	19 2 30	22 Mar. (82) .	6 Fri.	144-6378	4326
27 Mar. (86) .		5 Thur.	1 15 0	11 Mar. (70) .	3 Tues.	20-3212	4327
27 Mar. (86) .		6 Fri.	7 27 30	1 Mar. (60)	1 Sun.	234-6365	4328
27 Mar. (86) .		0 Sat	13 40 0	20 Mar. (79) .	0 Sat.	269-2761	4329
26 Mar. (86) .	Ė	1 Sun.	19 52 30	8 Mar. (68)	4 Wed.	144-9594	4330
27 Mar. (86) .	ı.	3 Tues	2 5 0	25 Feb. (56) .	1 Sun.	20-6428	4331
27 Mar. (86) .		4 Wed.	8 17 30	16 Mar. (75)	0 Sat.	55-2824	4332
27 Mar. (86) .		5 Thur.	14 30 0	6 Mar. (65) .	5 Thur	269-5977	4333
26 Mar. (86) .		6 Fri.	20 42 30	24 Mar. (84) .	4 Wed.	304-2373	4334
27 Mar. (86) .		1 Sun.	2 55 0	13 Mar. (72) .	1 Sun	179-9207	4335
27 Mar. (86) .		2 Mon.	9 7 30	2 Mar. (61) .	5 Thur	55-6041	4336
27 Mar. (86) .		3 Tues	15 20 0	21 Mar. (80) .	4 Wed	90-2437	4337
26 Mar. (86) .		4 Wed	21 32 30	10 Mar. (70) .	2 Mon	304-5590	4338
27 Mar. (86) .		6 Fri	3 45 0	27 Feb. (58)	6 Fri.	180-2424	4339
27 Mar. (86) .		0 Sat	9 57 30	18 Mar. (77) .	5 Thur	214-8820	4340
27 Mar. (86) .		1 Sun.	16 10 0	7 Mar. (66) .	2 Mon	90-5654	4341
26 Mar. (86) .		2 Mon.	22 22 30	25 Mar. (85) .	1 Sun	125-2049	4342
27 Mar. (86) .		4 Wed	4 35 0	14 Mar. (73) .	5 Thur	0-8884	4313
27 Mar. (86) .		5 Thur	10 47 30	4 Mar. (63) .	3 Tues	215-2037	4344
27 Mar. (86)		6 Fri	17 0 0	23 Mar. (82) .		249-8433	4345

TABLE

_								
				CONCUE	RENT YE	AR.		
- 10		krama.	ar year	/ E.I.V	- 24	Jovian San	IVATSABA.	Mean Interculated (adhika) lunar
Kali.	Śaka,	Chaitradi Vikrama.	Mëshādi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	month.
1	2	3	За	4	5	6	7	8a
4346	1167	1302	651	419-20	*1244-45	38 Krödhin .	42 Kilaka	**
4347	1168	1303	652	420-21	1245-46	39 Viávávasu	43 Saumya† .	4 Ashādha .
4348	1160	1304	653	421-22	1246-47	40 Parabhava .	45 Virödhakrit .	
4349	1170	1305	654	422-23	1247-48	41 Playanga .	46 Paridhävin .	1994
4350	1171	1306	655	423-24	*1248-49	42 Kilaka	47 Pramadia .	1 Chaitra .
4351	1172	1307	656	424-25	1249-50	43 Saumya .	48 Annuda .	***
4352	1173	1308	657	425-26	1250-51	44 Sādhāraņa .	49 Rākshasa .	9 Mārgašira .
4353	1174	1309	658	426-27	1251-52	45 Virodhakrit .	50 Anala	2000
4354	1175	1310	659	427-28	*1252-53	40 Paridhāvin .	51 Pingala .	9997
4355	1176	1311	660	428-20	1253-54	47 Pramādin -	52 Kālayukta .	6 Bhadrapada
4356	1177	1312	661	429-30	1254-55	48 Ānanda .	53 Siddhärthin .	2000
4357	1178	1313	662	430-31	1255-56	49 Rükshasa .	54 Raudra .	e.
4358	1179	1314	663	431-32	*1256-57	50 Anala . ,	55 Durmati .	2 Valšākha .
4359	1180	1315	664	432-33	1257-58	51 Pingala .	56 Dundubhi .	
4360	1181	1316	665	433-34	1258-59	52 Kälsyukta .	57 Rudhirödgárin	11 Magha .
4361	1182	1317	666	434-35	1259-60	53 Siddharthin .	58 Raktāksha .	***
4362	1183	1318	667	435-36	*1260-61	54 Raudra .	59 Krödhana .	(see
4363	1184	1319	668	436-37	1261-62	55 Durmati .	60 Kshaya .	7 Aśvina .
4364	1185	1320	669	437-38	1262-63	56 Dundubhi .	1 Prabhava .	
4365	1186	1321	670	438-39	1263-64	57 Rudhirödgárin	2 Vibhava .	
4366	1187	1322	671	439-40	*1264-65	58 Raktāksha .	3 Sukh	4 Åshādha .
4387	1188	1323	672	440-41	1265-68	59 Krödhana .	# Pramôda .	244
4368	1189	1324	673	441-42	1266-87	60 Kshaya	5 Prejipati .	12 Phälguna
4369	1190	1325	674	442-43	1267-68	1 Prabhava .	6 Angiras .	***
4170	1191	1326	675	443-44	1268-89	2 Vibhava .	7 Srimukha .	
-	Account to the		-		A 11 11 11 11 11 11 11 11 11 11 11 11 11		The second second second	

⁴⁴ Sādhāraņa was suppressed in the north by the mean system, but 45 Virôdhakrit by the true system. By the latter system the year A.D. 1246-47 was called in the north "Sādhāraṇa."

1 Ārya Siddhānta, mean system.

		CO	MMENCEMEN	NT OF THE			*
M	EAN (SOLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC	YEAR (MEAN H CHATTEA SUI	SUNRISH OF CLA I ENDS).	Kali year.
Day and mont	th,	Week-day.	Time of mean Mësha- sainkränti.	Day and month,	Week-day.	a (here-t, the index of the tithi).	
13		14	17	19	20	23	1
			H. M. S.	1			1
26 Mar. (86) .	ta:	0 Sat	23 12 30	11 Mar. (71) .	6 Fri	125-5266	4346
27 Mar. (86) .	12	2 Mon	5 25 0	28 Feb. (59) .	3 Tues	1-2100	4347
27 Mar. (86) .	(0)	3 Tues	11 37 30	19 Mar. (78) .	2 Mon	35-8196	4348
27 Mar. (86) .	940	4 Wed	17 50 0	9 Mar. (68) .	0 Sat	250-1649	4349
27 Mar. (87) .	9	6 Fri	0 2 30	26 Feb. (57) .	4 Wed	125-8482	4350
27 Mar. (86) .	39.1	0 Sat	6 15 0	16 Mar. (75) .	3 Tues	100-4878	4351
27 Mar. (86) .	(4)	1 Sun	12 27 30	5 Mar. (64) .	0 Sat.	36-1712	4352
27 Mar. (86) .	700	2 Mon	18 40 0	24 Mar. (83) .	6 Fri.	70-8109	4353
27 Mar. (87) .	25	4 Wed	0 52 30	13 Mar. (73) .	4 Wed	285-1262	4354
27 Mar. (86) .		5 Thur	7 5 0	2 Mar. (61) .	1 Sun.	160-8095	4355
27 Mar. (86) .	4	6 Fri	13 17 30	21 Mar. (80) .	0 Sat	195-4491	4356
27 Mar. (86) .	34	0 Sat	19 30 0	10 Mar. (69) .	4 Wed	71-1325	4357
27 Mar. (87) .	-	2 Mon	1 42 30	28 Feb. (59) .	2 Mon	285-4478	4358
27 Mar. (86) .	360	3 Tues	7 55 0	18 Mar. (77) .	1 Sun	320-0874	4359
27 Mar. (86) .		4 Wed	14 7 30	7 Mar. (66) .	5 Thur	195-7708	4360
27 Mar. (86) .	27847	5 Thur	20 20 0	26 Mar. (85) .	4 Wed	230 4104	4361
27 Mar. (87) .		0 Sat	2 32 30	14 Mar. (74) .	1 Sun	106-0938	4362
27 Mar. (86) .		1 Sun	8 45 0	4 Mar. (63) .	6 Fri	320-4091	4363.
27 Mar. (86) .	ES. 1	2 Mon	14 57 30	22 Mar. (81) .	4 Wed	16-4168	4384
27 Mar. (86) .	363	3 Tues	21 10 0	12 Mar. (71) .	2 Mon	230-7321	4365
27 Mar. (87) .	100	5 Thur	3 22 30	29 Feb. (60) .	6 Fri	106-4155	4366
27 Mar. (86) .	241	6 Fri	9 35 0	19 Mar. (78) .	5 Thur	141-0551	4367
27 Mar. (86) .	1.0	0 Sat	15 47 30	8 Mar. (67)	2 Mon	16-7384	4368
27 Mar. (86) .	127.00	1 Sun.	22 0 0	27 Mar. (86) .	1 Sun	51-3780	4369
27 Mar. (87) .	30	3 Tues.	4 12 30	16 Mar. (76) .	6 Fr	265-6934	4370

TABLE

				CONCUR	RENT YE.	AR,		E FIAT
Kali,	Saka,	Chaitradi Vikrama.	Meshādi solar year in Bengal.	Kollam.	A.D.	JOYIAN SAN	Northern system.	Mean Intercalated (adhika) lunar month.
		Cha	Mes					
1	2	3	3a	4	5	6	7	8a
4371	1192	1327	676	444-45	1269-70	3 Sukla	8 Bhāva	9 Mārgašira .
4372	1193	1328	677	445-46	1270-71	4 Pramôda .	9 Yuvan	
4373	1194	1329	678	446-47	1271-72	5 Prajapati .	10 Dhatri	# O.t.
4374	1195	1330	679	447-48	*1272-73	6 Angiras .	11 Iśvara	5 Srāvaņa .
4375	1196	1331	680	448-49	1273-74	7 Śrimukha .	12 Bahudhānya . 13 Pramādin .	***
4376	1197	1332	681	449-50	1274-75	8 Bhāva		2 Vnišākha .
4377	1198	1333	682	450-51	1275-76 *1276-77	9 Yuvan	A STANDAMACE OF	S YHINAKIB .
4378	1199	1334	683	451-52 452-53	1277-78		15 Vrisha	10 Pausha
4379	1200	1335	684	453-54	1278-79	11 Isvara	17 Subhānu	
4380	1201	1336	685	454-55	1279-80	13 Pramathin .	to me	419
4381	1202	1338	687	455-56	*1280-81	14 Vikrama	19 Pārthiva	7 Āśvins .
4382	1203	1339	688	456-57	1281-82	15 Vrisha	20 Vyaya	10 constant
4384	1204	1340	689	457-58	1282-83	16 Chitrabhānu ,	21 Sarvajit	(10)
4385	1206	1341	690	458-59	1283-84	17 Subhānu .	22 Sarvadhārin .	4 Āshādha .
4386	1207	1342	691	459-60	*1284-85	18 Tărana	23 Virôdhin .	
4387	1208	1343	692	460-61	1285-86	19 Pärthiva	24 Vikrita	12 Phälguna .
4388	1209	1344	693	461-62	1286-87	20 Vyaya	25 Khara	***
4389	1210	- horas	694	462-63	1287-88	21 Sarvajit .	26 Nandana .	
4390	1211	1346	695	463-64	*1288-89	22 Sarvadhārin .	27 Vijaya	9 Mārgašira .
4391	1 1212		696	464-65	1289-90	23 Virôdhin .	28 Jaya	
4392	1213	1	697	465-66	1290-91	24 Vikrita	29 Manmatha .	***
4393	1214	1	698	466-67	1291-92	25 Khara	30 Dormukha .	5 Śrāvaņa .
4394	1215	1000	699	467-68	*1292-93	26 Nandana .	31 Hēmalamba ,	
4395	1216	10	700	468-69	1293-94	27 Vijaya	32 Vilamba .	***
200	1	-	1	-		1		

1 Arya Siddhanta, mean system.

			ENT OF THE	OMMENCEME	O	
or ns). Kali year.	SUNRISE OF KLA I ENDS).	YEAR (MEAN II CHAITRA SUI	MEAN LUNI-SOLAR CIVIL DAY ON WHIC		OLAH YEAR.	MEAN S
dex	a (here=t, the index of the tithi).	Week-day.	Day and month, A.D,	Time of mean Mesha- samkranti.	Week-day.	Day and month, A.D.
1	23	20	19	17	14	13
4371	141-3767	3 Tues	5 Mar. (64) .	H. M. S. 10 25 0	4 Wed	27 Mar. (86)
164 4372	176-0164	2 Mon	24 Mar. (83) .	16 37 30	5 Thur	27 Mar. (86)
2000	51-6998	6 Fri	13 Mar. (72) ,	22 50 0	6 Fri	27 Mar. (86)
	266-0150	4 Wed	2 Mar. (62) .	5 2 30	1 Sun	27 Mar. (87)
200	300-6546	3 Tues	21 Mar. (80) .	11 15 0	2 Mon	27 Mar. (86)
DEFECT CONT.	176-3380	0 Sat	10 Mar. (69) .	17 27 30	3 Tues.	27 Mar. (86)
46100 E.S.	52-0213	4 Wed	27 Feb. (58) .	23 40 0	4 Wed.	27 Mar. (86)
Salary Salary	86-6609	3 Tues.	17 Mar. (77) .	5 52 30	6 Fri	27 Mar. (87)
MARK 1 - MARK	300-9762	1 Sun.	7 Mar. (66) .	12 5 0	0 Sat	27 Mar. (86)
	9996-9840* 211-2992	6 Fri	25 Mar. (84) .	18 17 30	1 Sun.	27 Mar. (86)
ARRES MANAGEMENT	86-9826	4 Wed.	15 Mar. (74) .	0 30 0	3 Tues.	28 Mar. (87)
	121-6222	1 Sun	3 Mar. (63)	6 42 30	4 Wed	27 Mar. (87)
MARK I SEC	9997-3056*	A CHARLES	22 Mar. (81) . 11 Mar. (70) .	12 55 0	5 Thur	27 Mar. (86)
355 Power	211-6209	2 Mon.		19 7 30	6 Fri.	27 Mar. (86)
100 A 100 A	246-2605	I Sun.	1 Mar. (60) , 19 Mar. (79) ,	1 20 0 7 32 30	1 Sun	28 Mar. (87)
1 100 E	121-9439	5 Thur.	8 Mar. (67) .	7 32 30 13 45 0	2 Mon	27 Mar. (87)
2000	156-5834	4 Wed.	23 Mar. (86) .	19 57 30	3 Tues.	27 Mar. (86)
2669 4389	32-2669	1 Sun	NUMBER OF SERVICE	2 10 0	4 Wed	27 Mar. (86)
Water In Street	246-5821	6 Fri	5 Mar. (65) .	8 22 30	6 Fri 0 Sat	28 Mar. (87)
	THE RESIDENCE OF THE PARTY OF T	5 Thur	24 Mar. (83) .	14 35 0	1 Sun.	27 Mar. (87)
9051 4392	156-9051	2 Mon	13 Mar. (72) .	20 47 30	2 Mon.	27 Mar. (86)
5885 4393	32-5885	6 Fri	2 Mar. (61) .	3 0 0	4 Wed	28 Mar. (87)
2281 4394	67-2281	5 Thur	20 Mar. (80) .	9 12 30	5 Thur	27 Mar. (87)
5434 4395	281-5434	3 Tues	10 Mar. (69) .	DE 700 100	6 Fri.	27 Mar. (86)

^{*} As a mean tithi Chaitra sukla I was expunged. The civil day corresponding to it, i.e., the first day of the luni-solar year, was as given in cols. 19, 20.

TABLE

57823				CONCUR	RENT YE	AR.		
Kali.	Saka.	Chaltradi Vikrama.	Möshidi solar year in Bengal.	Kollam.	A.D.	Joyian San Southern system.	Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	8a
4396 4397 4398 4399 4400 4401 4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412	2 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234	3 1352 1353 1354 1355 1356 1357 1358 1369 1361 1362 1363 1364 1365 1366 1367 1368 1369	701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717	4 469-70 470-71 471-72 472-73 473-74 474-75 475-76 476-77 477-78 478-79 479-80 480-81 481-82 482-83 483-84 484-85 485-86 486-87	5 1294-95 1295-96 *1296-97 1297-98 1298-99 1299-1300 *1300-01 1301-02 1302-03 1303-04 *1304-05 1305-06 1306-07 1307-08 *1308-09 1309-10 1310-11 1311-12	28 Jaya	7 33 Vikārin 34 Sārvarin 35 Plava 36 Subhakrit 37 Sōbhana 38 Krōdhin 39 Viśvāvasu 40 Parābhava 41 Plavanga 42 Kīlaka 43 Saumya 44 Sādhāraņa 45 Virōdhakrit 46 Paridhāvin 47 Pramādin 48 Ānanda 49 Rākshasa 50 Ānala	2 Vaišākha
4414	1235	1370	719	487-88	*1312-13	46 Paridhāvin .	51 Pingala	
4415	1236	1371	720	488-89	1313-14	47 Pramādin .	52 Kālayukta .	1 Chaitra .
4416	1237	1372	721	489-90	1314-15	48 Ananda .	53 Siddhärthin .	7,44
4417	1238	1373	722	490-91	1315-16 *1316-17	49 Rākshasa	54 Raudra .	10 Pausha ,
4419	1240	1375	723	492-93	1317-18	50 Anala	55 Durmati	***
4420	1243	1375	725	493-94	1318-19	52 Kālayukta .	57 Rudhirödgårin	7 Āšvina
-		-		-				

1 Ārya Siddhānta, mean system.

		C	OMMENCEM	ENT OF THE			
Мя	AN E	SOLAH YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC	Kali year.		
Day and mont	h,	Week-day.	Time of mean Mesha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13		14	17	19	20	23	1
27 Mar. (86) . 28 Mar. (87) .		0 Sat 2 Mon	H. M. S. 21 37 40 3 50 0	27 Feb. (58) . 18 Mar. (77) .	0 Sat 6 Fri	157-2268 191-8664	4396 4397
27 Mar. (87) .	2	3 Tues	10 2 30	6 Mar. (66) .	3 Tues	67-5498	4398
27 Mar. (86) .		4 Wed	16 15 0	25 Mar. (84) .	2 Mon	102-1894	4399
27 Mar. (86) .	*	5 Thur	22 27 30	15 Mar. (74) .	0 Sat	316-5047	4400
28 Mar. (87) .		0 Sat	4 40 0	4 Mar. (63) .	4 Wed	192-1881	4401
27 Mar. (87) .		1 Sun	10 52 30	22 Mar. (82) .	3 Tues	226-8277	4402
27 Mar. (86) .	10	2 Mon.	17 5 0	11 Mar. (70) .	0 Sat. *.	102-5111	4403
27 Mar. (86) .	2	3 Tues	23 17 30	1 Mar. (60) .	5 Thur	316-8264	4404
28 Mar. (87) .	43	5 Thur.	5 30 0	19 Mar. (78) .	3 Tues	12-8341	4405
27 Mar. (87) .	**	6 Fri.	11 42 30	8 Mar. (68) .	1 Sun	227-1494	4406
27 Mar. (86) .	ĸ	0 Sat	17 55 0	27 Mar. (86) .	0 Sat.	261-7889	4407
28 Mar. (87) .	10	2 Mon	0 7 30	16 Mar. (75) .	4 Wed	137-4728	4408
28 Mar. (87) .		3 Tues	6 20 0	5 Mar. (64) .	I Sun	13-1558	4409
27 Mar. (87) .	-	4 Wed.	12 32 30	23 Mar. (83) .	0 Sat	47-7954	4410
27 Mar. (86) .	1	5 Thur	18 45 0	13 Mar. (72) .	5 Thur.	262-1106	4411
28 Mar. (87) .	×	0 Sat	0 57 30	2 Mar. (61) .	2 Mon	137-7940	4412
28 Mar. (87) .		1 Sun	7 10 0	21 Mar. (80) .	I Sun.	172-4337	4413
27 Mar. (87) .		2 Mon	13 22 30	9 Mar. (69)	5 Thur.	48-1170	4414
27 Mar. (86) .	*	3 Tues	19 35 0	27 Feb. (58) .	3 Tues.	262-4322	4415
28 Mar. (87) .	2	5 Thur	1 47 30	18 Mar. (77)	2 Mon .	297-3719	4416
28 Mar. (87) .		6 Fri.	8 0 0	7 Mar. (66) .	6 Fri.	172-7563	4417
27 Mar. (87) .		0 Sat.	24 12 30	25 Mar. (85) .	5 Thur	207-3949	4418
27 Mar. (86) .	•	1 Sun.	20 25 0	14 Mar. (73) .	2 Mon	83-0782	4419
28 Mar. (87) .	•	3 Tues	2 37 30	4 Mar. (63) .	0 Sat	297-3935	1420

				CONCUR	RENT YE.	AR.		
Kall	Saka.	Chaitradi Vikrama.	Mahadi solar year in Bengal.	Kollam.	A.D.	Jovian Sai Southern system.	Northern system.	Mean Intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	8a
4421 4422 4423 4424 4425 4426 4427 4428 4429 4430 4431 4432 4433 4434 4435 4436 4437	1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260	1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395	726 727 728 729 730 731 732 733* 734 735 736 737 738 739 740 741 742 743 744	494-95 495-96 496-97 497-98 498-99 499-00 500-01 501-02 502-03 503-04 504-05 506-07 507-08 508-09 509-10 511-12 512-13	1319-20 *1320-21 1321-22 1322-23 1323-24 *1324-25 1325-26 1326-27 1327-28 *1328-29 1339-30 1330-31 1331-32 *1332-33 1333-34 1333-34 1336-37 1336-37	53 Siddhārthin . 54 Randra . 55 Durmati . 56 Durmati . 57 Rudhirōdgārin 58 Raktāksha . 59 Krōdhana . 60 Kshaya . 1 Prabhava . 2 Vibhava . 3 Sukla . 4 Pramōda . 5 Prajāpati . 6 Angiras . 7 Srīmukha . 8 Bhāva . 9 Yuvan . 10 Dhātri . 11 Išvara .	58 Baktāksha . 59 Krōdhana . 60 Kshaya . 1 Prabhava . 2 Vibhava . 3 Sukla 4 Pramōda . 5 Prajāpati . 6 Aṅgiras . 7 Srimukha . 8 Bhāva 9 Yuvan† . 11 Iśvara 12 Bahudhānya . 13 Pramāda . 14 Vikrama . 15 Vrieha 16 Chitrabhānu .	8a 3 Jyčahtha 12 Phālguna 8 Kārttika 5 Srāvaņa 1 Chaitra 10 Pausha 6 Bhādrapada
4441	1261	1396	745 746	513-14	1338-39	12 Bahudhānya . 13 Pramāthin ,	18 Tāraņa	
4442	1263	1398	747	515-16	*1310-41	14 Vikrams .	20 Vyava	3 Jyeshtha .
4443	1264	1399	748	516-17	1341-42	15 Vrisha .	21 Sarvajit .	***
4444	1265	1400	749	517-18	1342-43	16 Chitrabhanu .	22 Sarvadhārin .	11 Māgha .
4445	1208	1401	750	513-19	1313-44	17 Subbānu .	23 Vir5dhin	166

^{† 10} Dhātri was suppressed in the north by the mean system, but 11 Isvara by the true system. The year A.L. 1331-32 was by the latter system called "10 Dhātri" in the north.

LXXVI-Contd.

1 Ārya Siddhānta, mean system.

	CC	MMENCEME	NT OF THE			
MEAN	SOLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHICE	r year (mean oh Chaftra Su	SUNRISE OF KLA I ENDS).	Kali year.
Day and month, A.D.	Week-day.	Time of mean Mesha- samkranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13	14	17	19	20	23	I
28 Mar. (87) .	4 Wed	H. M. S. 8 50 0	23 Mar. (82) .	6 Fri	332-0331	4421
27 Mar. (87) .	5 Thur	15 2 30	11 Mar. (71) .	3 Tues.	207-7165	4422
27 Mar. (86) .	6 Fri	21 15 0	28 Feb. (59) .	0 Sat	83-3999	4423
28 Mar. (87) .	1 Sun	3 27 30	19 Mar. (78) .	6 Fri	118-0395	4424
28 Mar. (87)	2 Mon	9 40 0	9 Mar. (68) .	4 Wed	332-3547	4425
27 Mar. (87)	3 Tues	15 52 30	26 Mar. (86) .	2 Mon	28-3624	4426
27 Mar. (86)	4 Wed	22 5 0	16 Mar. (75) .	0 Sat	242-6778	4427
28 Mar. (87)	6 Fri.	4 17 30	5 Mar. (64) .	4 Wed	118-3612	4428
28 Mar. (87)	0 Sat.	10 30 0	24 Mar. (83)	3 Tues.	153-0008	4429
27 Mar. (87)	1 Sun	16 42 30	12 Mar. (72)	0 Sat	28-7841	4430
27 Mar. (86)	2 Mon	22 55 0	2 Mar. (61) ,	5 Thur	242-9995	4431
28 Mar. (87)	4 Wed, .	5 7 30	21 Mar. (80) .	4 Wed	277-6391	4432
28 Mar. (87)	5 Thur	11 20 0	10 Mar. (69) .	1 Sun	153-3224	4433
27 Mar. (87)	6 Fri	17 32 30	27 Feb. (58) .	5 Thur	20-0008	1434
27 Mar. (86)	0 Sat.	23 45 0	17 Mar. (76) .	4 Wed.	63-6455	4435
28 Mar. (87)	2 Mon.	5 57 30	7 Mar. (66)	2 Mon	277-9607	4436
28 Mar. (87)	3 Tues.	12 10 0	25 Mar. (85)	1 Sun	312-6003	4437
27 Mar. (87)	4 Wed.	18 22 30	14 Mar. (74) .	5 Thur	188-2837	4438
28 Mar. (87)	6 Fri.	0 35 0	3 Mar. (62) .	2 Mon	63-9689	4439
28 Mar. (87)	0 Sat.	6 47 30	22 Mar. (81) ,	1 Sun	98-6067	4440
28 Mar. (87)	I Sun	13 0 0	12 Mar. (71)	6 Fri.	312-9231	4441
27 Mar. (87)	2 Mon	19 12 30	29 Feb. (60)	3 Tues	188-6054	4442
28 Mar. (87)	4 Wed.	1 25 0	19 Mar. (78)	2 Mon.	223-2350	4443
28 Mar. (87)	5 Thur.	7 37 30	8 Mar. (67)	6 Fri.	98-9284	4444
28 Mar. (87)	6 Fri	13 50 0	27 Mar. (86) .	5 Thur.	183-5679	4445

TABLE

	1	14	AR.	RENT YE.	CONCUR				W.
Mean Interculated (adhika) lunar month.		IVATSARA.	Jovian Sam	A.D.	İ	solar year	ikrama.		
	Northern system.		Southern Northern		Kollam.	Meshādi sol in Bengal.	Chaiteadi Vikrama.	Saka.	Kali
8a		7	6	5	4	3a	3	2	1
200	1	24 Vikrita .	18 Tarana	*1344-45	519-20	751	1402	1267	4446
8 Kārttika .	•	25 Khara -	19 Parthiva	1345-46	520-21	752	1403	1268	4447
200		26 Nandana	20 Vyaya	1346-47	521-22	753	1404	1269	4448
	3	27 Vijaya .	21 Sarvajit .	1347-48	522-23	754	1405	1270	4449
4 Åshådha .		28 Jaya .	22 Sarvadhārin .	*1348-49	523-24	755	1406	1271	4450
***		20 Manmatha	23 Virôdhin .	1349-50	524-25	756	1407	1272	4451
***		30 Durmukha	24 Vikrita	1350-51	525-26	757	1408	1273	4452
1 Chaitra .		31 Hēmalamba	25 Khara	1351-52	526-27	758	1409	1274	4453
	•	32 Vilamba	26 Nandana .	*1352-53	527-28	759	1410	1275	4454
9 Mārgašira .	1	33 Vikārin	27 Vijaya	1353-54	528-29	760	1411	1276	4455
		34 Sărvarin	28 Jaya	1354-55	529-30	761	1412	1277	4456
· · · ·		35 Plava .	29 Manmatha .	1355-56	530-31	762	1413	1278	4457
6 Bhādrapada	٠	36 Subhakrit	30 Durmukha .	*1356-57	531-32	763	1414	1279	4458
5,000	,	37 Sibhana	31 Hēmalamba .	1357-58	532-33	764	1415	1280	4459
200		38 Krődhin	32 Vilamba -	1358-59	533-34	765	1416	1281	4400
3 Jyeshtha .		39 Viávávasu	33 Vikārin .	1359-60	534-35	766	1417	1282	4461
122		40 Parabhaya	34 Sărvarin .	*1360-81	535-36	767	1418	1283	4462
11 Māgha .		41 Plavanga	35 Plava	1361-62	536-37	768	1419	1284	4463
(44)		42 Kilaka .	36 Subhakrit .	1362-63	537-38	769	1420	1285	4464
(999)		43 Saumya	37 Sõbhana .	1363-64	538-39	770	1421	1286	4465
8 Kürttika .		44 Sādhāraņa	38 Krödhin .	*1364-65	539-40	771	1422	1287	4466
		45 Virôdhakrit	39 Višvāvasu .	1365-66	540-41		1423	1288	4467
		46 Paridhāvin	40 Parabhava .	1366-67		1 1 100000	1424	1289	4468
4 Āshādha .	4	47 Promidin	41 Plavanga	1367-68			1425	1290	4469
		48 Ananda	42 Kilaks	*1368-69	200000000000000000000000000000000000000		1426	1291	4470

1 Ārya Siddhānta, mean system.

		003	MENCEMEN	T OF THE			+
М	EAN I	SOLAR YEAR.	The sale	MEAN LUNI-SOLAR CIVIL DAY ON WHIC	YRAH (MEAN H CHAITRA SUI	SUNRISE OF CLA 1 ENDS).	Kali year.
Day and mon A.D.	th,	Week-day.	Time of mean Mesha- samkranti	Day and month,	Week-day.	a (here=1, the index of the tithi).	
13		14	17	19	20 -	23	1
27 Mar. (87) .		0 Sat	H. M. S. 20 2 30	15 Mar. (75) .	2 Mon 0 Sat	9-2513 223-5666	4446
28 Mar. (87) .		2 Mon 3 Tues	2 15 0 8 27 30	5 Mar. (64) . 24 Mar. (83) .	6 Fri.	258-2062	4448
28 Mar (87) . 28 Mar. (87) .		3 Tues	14 40 0	13 Mar. (72) .	3 Tues.	133-8897	4449
27 Mar. (87) .		5 Thur	20 52 30	1 Mar. (61)	0 Sat	9-5730	4450
28 Mar. (87) .		0 Sat	3 5 0	20 Mar. (79) .	6 Fri	44-2126	4451
28 Mar. (87) .	2	I Sun	9 17 30	10 Mar. (69) .	4 Wed, .	258-5279	4452
28 Mar. (87) .	17.	2 Mon	15 30 0	27 Feb. (58) .	1 Sun	134-2112	4453
27 Mar. (87) .		3 Tues	21 42 30	17 Mar. (77) .	0 Sat	168-8509	4454
28 Mar. (87) .	34	5 Thur	3 55 0	6 Mar. (65) .	4 Wed	44-5342	4455
28 Mar. (87) .	22	6 Fri	10 7 30	25 Mar. (84) .	3 Tues	79-1738	4456
28 Mar. (87) .	12	0 Sat	16 20 0	15 Mar. (74) .	1 Sun.	293-4891	4457
27 Mar. (87) .		1 Sun	22 32 30	3 Mar. (68) .	5 Thur	169-1725	4458
28 Mar. (87) .	24	3 Tues	4 45 0	22 Mar. (81) .	4 Wed	203-8121	4459
28 Mar. (87) .	- 2	4 Wed	10 57 30	11 Mar. (70) .	1 Sun	79-4955	4460
28 Mar. (87) .	(9)	5 Thur	17 10 0	1 Mar. (60) .	6 Fri	293-8108	4461
27 Mar. (87) .	000	6 Fri	23 22 30	19 Mar. (79) .	5 Thur. ,	328-4504	4465
28 Mar. (87) .	520	1 Sun	5 35 0	8 Mar. (67) .	2 Mon	204-1338	4463
28 Mar. (87) .	15.1	2 Mon. ,	11 47 30	27 Mar. (86) .	1 Sun.	238-7731	4464
28 Mar. (87) .		3 Tues	18 0 0	16 Mar. (75) .	5 Thur	114-4568	4465
28 Mar. (88) .	1161	5 Thur	0 12 30	5 Mar. (65) .	3 Tues	328-7721	4466
28 Mar. (87) .	160	6 Fri	6 25 0	23 Mar. (82) .	1 Sun	24-7798	4467
28 Mar. (87) .	0.00	0 Sat	12 37 30	13 Mar. (72) .	6 Fri.	239-0951	1468
28 Mar. (87) .	10	1 Sun	18 50 0	2 Mar. (61)	3 Tues .	114-7785	4169
28 Mar. (88) .		3 Tues	1 2 30	20 Mar. (80) .	2 Mon	149-4181	4470

TABLE

		AR.	RRENT YE	CONCU				
Mean Intercalated (adhika) luna month.	Northern system,	Jovian Sa Southern system.	A.D.	Koliam,	Mēshādi solar year in Bengal.	Chaitradi Vilenma.	Saka.	Kali.
8a	7	6	5	4	3a	3	2	1
04								
	49 Rākshasa .	43 Saumya .	1369-70	544-45	776	1427	1292	4471
1 Chaitra	50 Anala	44 Sādhāraņa .	1370-71	545-46	777	1428	1293	4472
	51 Pingala .	45 Virôdhakrit .	1371-72	546-47	778	1429	1294	4473
9 Mārgašira	52 Kālayukta .	46 Paridhāvin .	*1372-73	547-48	779	1430	1295	4474
	53 Siddhärthin .	47 Pramādin .	1373-74	548-49	780	1431	1296	4475
	54 Raudra .	48 Ānanda .	1374-75	549-50	781	1432	1297	4476
6 Bhādrapad	55 Durmati .	49 Rākshasa	1375-76	550-51	782	1433	1298	4477
***	56 Dundubhi .	50 Anala	*1376-77	551-52	783	1434	1299	4478
***	57 Rudhirödgärin	51 Pingala .	1377-78	552-53	784	1435	1300	4479
2 Vaišakha	58 Raktāksha .	52 Kālayukta .	1378-79	553-54	785	1436	1301	4480
	59 Krôdhana .	53 Siddhärthin .	1379-80	554-55	786	1437	1302	4481
11 Māgha	60 Kshaya .	54 Raudra .	*1380-81	555-56	787	1438	1303	4482
	1 Prabhava .	55 Durmati .	1381-82	556-57	788	1439	1304	4183
	2 Vibhava	56 Dundubhi .	1382-83	557-58	789	1440	1305	4484
7 Āśvina	3 Sukia	57 Rudhirödgärin	1383-84	558-59	790	1441	1306	4485
	4 Pramoda .	58 Raktāksha .	*1384-85	559-60	791	1442	1307	4486
	5 Prajāpati .	59 Krôdhana -	1385-86	560-61	792	1443	1308	4487
4 Åshädha	6 Angiras	60 Kshaya .	1386-87	561-62	793	1444	1309	4488
	7 Śrimukha .	1 Prabhava .	1387-88	562-63	794	1445	1310	4489
12 Phälguna	8 Bhāva	2 Vibhava .	*1388-89	563-64	795	1446	1311	4490
	9 Yuvan .	3 Sukla	1389-90	564-65	796	1447	1312	4491
***	10 Dhâtri .	Pramôda .	1390-91	565-66	797	1448	1313	4492
9 Manuales	11 Isvara	5 Prajāpati .	1391-92	560-67	798	1440	1314	4493
9 Márgasira .	12 Bahudhanya .	6 Aŭgiras .	*1392-93	567-68	799	1450	1315	4494
***	13 Pramādin	7 Srimukha .	1393-94	568-69	800	1451	1316	4495

1 Ārya Siddhānta, mean system

			I OF THE	OMMENCEM			
Kali yea	SUNRISH OF KLA I ENDS).	YEAR (MEAN DII CHAITRA SUI	MEAN LUNI-SOLAR CIVIL DAY ON WHR		SOLAR YEAR.	EAN	Мел
	a (here=t, the index of the tithi).	Week-day.	Day and month, A.D.	Time of mean Mesha- samkranti.	Week-day.	h,	Day and month, A.D.
1	23	20	19	17	14		13
			ACCEST THE	H. M. S.	4.00		00 May (07)
4471	25-1015	6 Fri.	9 Mar. (68) .	7 15 0	4 Wed.		The second second
4472	239-4167	4 Wed.	27 Feb. (58) .	13 27 30	5 Thur	1	28 Mar. (87) .
4473	274-0564	3 Tues.	18 Mar. (77) .	19 40 0	6 Fri.	**	28 Mar. (87) .
4474	149-7397	0 Sat.	6 Mar. (66) .	1 52 30	1 Sun.		28 Mar. (88) .
4475	184-3794	6 Fri	25 Mar. (84) .	8 5 0	2 Mon		
4476	60-0627	3 Tues	14 Mar. (73) .	14 17 30	3 Tues		
4477	274-3779	1 Sun.	4 Mar. (63) .	20 30 0	4 Wed		
4478	309-0176	0 Sat	22 Mar. (82) .	2 42 30	6 Fri	(4)	
4479	184-7000	4 Wed.	11 Mar. (70) .	8 55 0	0 Sat		
4480	60-3844	1 Sun.	28 Feb. (59) .	15 7 30	1 Sun.	1	
4481	95-0230	0 Sat	19 Mar. (78)	21 20 0	2 Mon.	9	
4482	309-3392	5 Thur	8 Mar. (68) .	3 32 30	4 Wed.	74	
4483	5-3469	3 Tues.	26 Mar. (85) .	9 45 0	5 Thur.	~	
4484	219-6622	1 Sun.	16 Mar. (75) .	15 57 30	6 Fri.		
4485	95-3456	5 Thur.		22 10 0	U Sat		
4486	129-9852	4 Wed.	23 Mar. (83) .	4 22 30	2 Mon		
4487	5-6686	I Sun .	12 Mar. (71) .	10 35 0	3 Tues.	:	
4488	219-9839	6 Fri.	2 Mar. (61) .	16 47 30	4 Wed.		
4489	254-6235	5 Thur	21 Mar. (80)	23 0 0			28 Mar. (87)
4490	130-3069	2 Mon.	9 Mar. (69) .	5 12 30	0 Sat	100	
4491	164-9464	l Sun.	28 Mar. (87)	11 25 0	I Sun.	. 1	
4492	40-6298	Thur,	7 Mar. (76)	17 37 30	2 Mon.	. 2	28 Mar, (87)
4493	254-9451	Tues.	7 Mar. (66) . :	23 50 0	Tues.	. 3	28 Mar. (87)
4494	289-5848	Mon	5 Mar. (85) . :	6 2 30	Thur.	. 5	28 Mar. (88)
4495	165-2681	Fri.	4 Mar. (73) .	12 15 0	Fn . 1	. 6	8 Mar. (87) . ,

	1			CONCOL	RENT YE	and the same of th		
		crama.	r year			Jovian sa	MVATSARA.	Mean Intercalated (adhika) lunar
Kali.	Chaitradi Vikrama. Meshidi solar yea in Bengal.		A.D.	Southern Northern system.		month.		
1	2	3	34	4	5	6	7	8a
4496	1317	1452	801	569-70	1394-95	8 Bhāva	14 Vikrama .	6 Bhādrapadi
4497	1318	1453	802	570-71	1395-96	9 Yuvan	15 Vrisha	
4498	1319	1454	803	571-72	*1396-97	10 Dhâtri	16 Chitrabhānu .	
4499	1320	1455	804	572-73	1397-98	11 Iśvara	17 Subhānu	2 Vaišākha
4500	1321	1456	805	573-74	1398-99	12 Bahudhānya .	18 Tāraņa	
4501	1322	1457	866	574-75	1399-00	13 Pramāthin .	19 Pārthiva .	11 Māgha
4502	1323	1459	807	575-76	*1400-01	14 Vikrama .	20 Vyaya .	

LXXVI-C neld.

	co	MMENCEMEN	T OF THE	1.5	
MEAN	SOLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHI	YEAR (MEAN SUNDISE OF OH CHAITRA ŠUKLA I ENDS).	Kali yesi
Day and month, A.D.	Week-day.	Time of mean Mesha- samkranti.	Day and month,	Week-day. a (here-t, the index of the tithi).	
13	14	17	19	20 23	1
28 Mar. (87)	0 Sat	H. M. 8. 18 27 30	3 Mar. (62) .	3 Tues 40-9515	4496
29 Mar (88)	2 Mon	0 40 0	22 Mar. (81) .	2 Mon 75-5912	4497
28 Mar. (88)	3 Tues	6 52 30	11 Mar, (71) .	0 Sat 289-9064	4498
28 Mar. (87)	4 Wed	13 5 0	28 Feb. (59) .	4 Wed 165-5892	4499
28 Mar. (87)	5 Thur	19 17 30	19 Mor. (78)	3 Tues 200-2294	4500
29 Mar (88)	0 Sat	1 30 0	8 Mar. (67) .	0 Sat. 75-9127	4501
28 Mar (88)	1 Sun	7 42 30	26 Mar. (86) .	8 Fri 110-5523	4502

TABLE LXXVII.

Dubation and Collective dubation of mean solar months according to the First Arya Siddhānta, with increase of "a" at each samkrānti.

Mean luni-solar nonth, ending after he second of the two solar samkräntis connected	At the mean solar samkrantis.	Collec	tive durate of "a" to the					
with it.		Day.	Week- day.	Н.	М.	s.	a	
1	2		3				4	
1. Chaitra	Mina-samk. (of pre-							
2. Varšākha	(Měsha-samk.	0	.0	0	0	0	0	
	(Vrishabha-samk	30	(2)	10	31	21	307-3526	
3. Jyeshtha	Mithuna-samk	60	(4)	21	2	5	614-7052	The duration each mean sole
4. Ashādha	(Karka-samk	91	(0)	7	33	71	922-0579	month is 30c 10h, 31m, 24s
5. Srāvaņa	Simha-samk	121	(2)	18	4	10	1229-4105	and this in tin
6. Bhādrapada .	(Kanyā-samk.	152	(5)	4	35	121	1536-7631	the mean mod increases her di
7 Aávina	Tulā-samk.	100	(0)	15	6	15	1844-1157	tance from measur
8, Kärttika	(Vrišchika-samk.	213	(3)	i	37	171	2151-4684	of circle, 1
9. Mārgāsira	Dhanus-samk.	243	(5	12	8	20	2458-8210	307-352623726.
10. Pausha		278	(0)	22	39	221	2766-1736	
11. Māgha	Makara-samk.			10	10	25	3073-5282	
12. Phitguns	Kumbha-san k	. 304	1,3-57	1 6			3380 8789	
STOCKED CONTRACTOR	Mina-samk.	. 334	(5)	10	41	271	700000000000000000000000000000000000000	
1. Chaitra (of fel- lowing year)	Misha-samk. (o following year).	f 365	(1)	6	12	:SC	3688-2315*	

* More fully 3688-231484714.

TABLE LXXVIII.

Value of a (=t) at beginning of centuries of the Kaliyuga, according to the First Ärya Siddhanta mean system.

The value of "a" to be added for beginning of odd years of centuries is given in Table LXXIII above. W.-D.=Week-day.

Century K. Y.	WD.	a (= t).
36	1.	7715-3525
37	1	6583-1816
38	0	5112-3787
39	0	3980-2078
40	0	2848-0369
41	0	1715:8659
42	0	583-6950
43	0	9451-5240
	0	8319-3531
44		December 1
45	0	7187-1822
46	6	5716-3793
47	6	4584-2084
48	6	3452-0375

N.B.—These values of "a" agree generally with Professor Jacobi's values (Epig. Ind. XI, 164), but the values here stated for the beginnings of centuries 38 to 42 are for mean sunrise on Saturdays, while his are for mean sunrise on the following Sundays.

TABLE LAXIX.

MEAN SUNRISE VALUES OF "a" (DISTANCE OF MEAN MOON FROM MEAN SUN), IN 10,000THS OF CIRCLE, FOR A MONTH PREVIOUS TO THE DAY OF MEAN MESHA-SAMKRANTI.

W. D.=Week-day.

Interval of days from mean Mesha- samkranti day.	WD.	n. (mean sunrise value).	Interval of days from mean Mesha- samkranti day.	WD.	g. (mean sunrise value).
31	4	9502-4119	15	6	4920-5219
30	5	9841-0438	14	6 0 1 2 3	5259-1538
20	6	179-6756	13	1	5597-7856
28	0	518:3075	12	2	5936-4175
27	1	856-9394	- 11	3	6275-0494
26	2	1195-5713	10	4	6613-6813
25	2 3 4	1534-2032	9	5 6 0	6902-3131
24	4	1872-8350	8 7	6	7290-9450
- 23	5	2211-4669	7	0	7629-5769
22	6	2550-0988	- 6	1	7968-2088
21	0	2888-7306	.5	2	8305-8406
20	1	3227:3625	4	3	8645.4725
19	2 3	3565-9944	3	4	8984-1044
18	3	3904-6263	2	5	9322 7263
17	4	4243-2581	3 2 1 0	3 4 5 6 0	9661-3881
16	5	4581-8900	0 1	0	0

N.B .- The use of this Table is explained in example 1.

TABLE LXXX.

The sun's mean longitude during the Hindu solar year, in 10,000ths of circle, according to the First Arya Siddhanta, at periods of 24 hours each, measured from the moment of mean Mesha-sankranti.

The same in degrees, etc., can be calculated by Table XLIV, above.

24-hour period.	Sun's mean longitude.	24-hour period.	Sun's mean longitude.	24-hour period.	Sun's mean longitude.	24-hour period.	Sun's mea longitude.
1	2	1	2	1	2	1	2
		1.6	22.00.0000				
At moment)	42	1149-8700	87	2381-8736	127	3476-9879
of mean Mean ha-	- 0	43 44	1177:2479 1204-5257	88 89	2409-2514	128	3504-3657
eamkranti.	1	45	1232-0036	90	2436-6293 2464-0071	129	3531-7436
tumarumi.	27:3779	46	1259-3814	91	2491-3850	130 131	3559-121- 3586-4993
2	54-7557	47	1286-7593	357.4	2001 0000	132	3613-877
3	82-1336	48	1314-1371	At moment	1	133	3641-2550
4	109-5114	49	1341-5150		Carnen	-134	3668-632
ō	136-8893	50	1368-8929	of mean Karka	2500-0	135	3696-010
6	164-2671	51	1396-2707	samkrānti.)	136	3723-388
7	191-6450	52	1423-6486	92	2518-7629	137	3750-766
8	219-0229	.53	1451-0264	93	2546-1407	138	3778-144:
9	246-4007	54	1478-4043	94	2573-5186	139	3805-522
10	273-7786	55	1505-7821	95	2600-8964	140	3832-900
11	301-1564	56	1533-1600	96	2628-2743	141	3860-277
12	328-5343	57	1560-5379	97	2655-6521	142	3887-655
13 14	355-9121 383-2900	58 59	1587-9157	98	2683-0300	143	3915-033
15	410-6879	60	1615-2936 1642-6714	99	2710-4079 2737-7857	144	3942-411
16	438-0457	- 00	1045-0114	01	2765-1636	146	3969-789 3997-167
17	465-4236	At moment	1	102	2792-5414	147	
18	492-8014	of mean	1	103	2819-9193	148	4024-545 4051-922
19	520-1793	Mithuna	1666-6	104	2847-2971	149	4079-300
20	547-5571	samkrānti.)	105	2874-6750	150	4106-678
21	574-9350	61	1670-0493	106	2902-0529	151	4134-056
22	602-3129	62	1697-4271	107	2929-4307	152	4161-4343
23	629-6907	63	1724-8050	108	2956-8086	F. P.A.G.	TO A PAINTED
24	\$57-0686	64	1752-1829	109	2984-1864	At moment	3
25	684-4464	65	1779-5607	110	3011-5643	of mean Kanyā	4166-6
26	711-8243	66	1806-9386	111	3038-9421	Kanyā	(4100.0
27	739-2021	67	1834-3164	112	3066-3200	samkranti.)
28	766-5800	68	1861-6943	113	3093-6979	153	4188-812
29 30	793-9579	69	1889-0721	114	3121-0757	154	4216-190
30	821-3357	70 71	1916-4500	115	3148-4536	155	4243-567
At moment	× .	72	1943-8279 1971-2057	116 117	3175-8314 3203-2093	156	4270-945
of mean	1	73	1998-5836	118	3230-5872	157 158	4298-323
Vrishabha	\$ 833.5	74	2025-9614	119	3257-9650	159	4325-701-4353-079
paiekrante.)	75	2053-3393	120	3285-3429	160	4380-457
31	848-7136	76	2080-7171	121	3312-7207	161	4407-835
32	876-0914	77	2108-0950	1000		162	4435-212
.33	903-4693	78	2135-4729	At moment	2	163	4462-590
34	930-6471	79	2162-8507	of mean	\$ 3333-3	164	4489-963
35	938-2250	80	2190-2286	Simha	400000	165	4517-346
36	985-6029	81	2217-6064	sankranti.	1	166	4544-724
37	012-9807	82	2244-9843	122	3340-0986	167	4572-102
38	040-3586	83	2272-3621	123	3367-4764	168	4599-480
39	1007-7364	84	2299-7400	124	3394-8543	169	4626-857
40	J095-1143	85	2327-1179	125	3422-2322	170	4654-235
41	122-4921	98	2354-4957	126	3449-6100	171	4681-613

TABLE LXXX-Contd.

24-hour period.	Sun's mean longitude.	24-hour period,	Sun's mean longitude.	24-hour period.	Sun's mean longitude.	24-hour period.	Sun's med longitude
1	2	1	2	i	2	1	2
			36.	-			
172	4708-9914	220	6023-1286	272	7440-7772	2000	
173	4736-3693	221	6050-5064	273	7474-1550	320 321	8760-9143
174	4763-7472	999	6077-8843	and the second second	1 27 2 45000	322	8788,2929
175	4791-1250	223	6105-2622	At moment	1	323	8815-6700 8843-0479
176 177	4818-5029	224	6132 6400	of mean Makara	7500-0	324	8870-4257
178	4845-8807 4873-2586	225	6160-0179	oninkranti.)	325	8897-8036
179	4900-6364	226 227	6187-3957	274	7501-5329	326	8925-181
180	4928-0143	228	6214-7736 6242-1514	275	7528-9107	327	8952-5593
181	4955-3922	220	6269-0593	276	7556-2886	328	8970-9375
182	4982-7700	230	6296-9072	277	7583-6664	329	9007-3150
At moment	5	231	6324-2850	278	7611-0443	330	9034-6929
mean	1	232	0351-6629	279	7638-4999	331 332	9062-0707
foulă sain-	- 5000-0	233	6379-0407	280	7665-8000	333	9089-4486 9116-8264
krānti.)	234	6406-4186	281 282	7693-1779 7720-5557	334	9144-2043
183	5010-1479	235	6433-7964	283	7747-9336	A CONTRACTOR AND A CONTRACTOR AND ADDRESS OF THE AD	D. F. E. C. L.
184	5037-5257	236	6461-1743	284	7775-3114	At moment	1)
185	5064-9036	237 238	6488-5522	285	7802-6893	of mean Mina-sam-	2166-6
186	5092-2814	239	6515-9300 6543-3079	286	7830-0672	krānti.	1
187	5119-6593	240	6570-6857	287	7857-4450	335	9171-5822
188	5147-0372	241	6598-0636	288	7884-8229	336	9198-9600
189 190	5174-4150	242	6625-4414	289	7912-2007	337	9226-3379
191	5201-7929 5229-1707	243	6652-8193	390	7939-5786	338	9253-7157
192	5256-5486	17230	Commence of the second	201	7966-9564	339	9281-0936
193	5283-9264	At moment	5	292	7994-3343	340	9308-4715
194	5311-3043	of mean	6666-6	293 294	8021-7122	341	9335-8493
195	5338-6822	Dhanus	Canada	295	8049-0900 8076-4679	342	9363-2272
196	5366-0600	samkrānti.	0000,1000	296	8103-8457	343 344	9390-6050
197	5393-4379	244 245	6680·1972 6707·5750	297	8131-2236	345	9417-9829
198	5420-8157	246	6734-9529	298	8158-6014	346	9445-3607 9472-7386
199	5448-1936	247	6762-3307	200	8185-9793	347	9500-1165
200	5475-5714	248	6789-7086	300	8213-3572	348	9527-4943
201 202	5502-9493 5530-3272	249	6817-0864	301	8240-7350	349	9554-8722
203	5557-7050	250	6844-4643	302	8268-1129	350	9582-2500
204	5585-0829	251	6871-8422	303	8295-4907	351	9609-8279
205	5612-4607	252	6899 2200	304	8322-8686	352	9637-0057
206	5639-8386	253	6926-5979	At moment	2	353	9664-3836
207	5667-2164	254	6953-9757	of mean Kumbha	8333-3	354	9691-7615
208	5694-5943	255	6981-3520	Kumbha	Conner o	355 356	9719-1393
209	5721-9722	256 257	7005-7314	samkrānti.	2000 0101	357	9746-5172 9773-8950
210	5749-3500	258	7000-1093 7063-4872	305	8350-2464	358	9801-2729
211	5776-7279	259	7090-8650	307	8377-6243 8405-0022	359	9828-6507
212	5804-1057	260	7118-2429	308	8432-3800	360	9856-0286
213	5831-4836	261	7145-6207	309	8459-7579	361	9883-4065
moment)	262	7172 9986	310	8487-1357	362	9910-7843
mean	3833-3	263	7200-3764	311	8514-5136	363	9938-1622
LINCHIKE	00000	264	7227-7543	312	8541-8914	364	9965-5400
inkranti.	TOTAL PARTY	265	7255-1322	313	8569-2693	265	9992-9179
214	5858-8614	266	7282-5100	314	8596-6472	At moment)
215 216	5886-2393 5913-6172	267	7309-8879	315	8624-0250	of inean	
217	5940/9950	268 269	7337-2657	316	8651-4029	Menhu-	10000
218	5968-3729	270	7364-6436 7392-0214	317	8678-7807	samks änti	10,000-0
219	5995-7507	271	7419-3993	318	8706-1586	of fallow-	
-	HEREST PROPERTY.	67.5	1 4 YO MAGOO	0340	8733-5364	ing year	1

TABLE LXXXI.

Sun's mean longitude. Increase in fractions of day according to the First Arya Siddhānta.

(For the same in degrees, etc., see above, Table XLIV.)

INCREA	ASE PER HOUR.		INCHEASE PE	R MIN	UTE.		INCREASE PER	t sec	OND.
No.	In 10,000ths of circle.	No.	In 10,000ths of circle.	No.	In 10,000ths of circle.	No.	In 10,000ths of circle.	No.	In 10,000ths of circle,
1	1-1407	1	0-0190	31	0-5894	ī	0-0003	31	0.0098
2	2-2815	2	0.0380	32	0-6084	2	0-0006	32	0-0101
3	3-4222	3	0-0570	33	0-6274	3	0-0010	33	0.0105
4	4-5630	4	0-0760	34	0-6464	4	0-0013	34	0.0108
5	5-7037	.5	0-0951	35	0-6654	5	0-0016	35	9-0111
6	6-8445	6	0.1141	36	0.6844	6	0-0019	36	0-0114
7	7.9852	7	0-1331	37	0-7035	7	0-0022	37	0-0117
8	9-1260	8	0-1521	38	0-7225	8	0.0025	38	0.0120
9	10-2667	9	0-1711	39	0-7415	9	0-0029	39	0.0124
10	11-4074	10	0-1901	40	0-7605	10	0-0032	40	0.0127
11	12-5482	11	0-2091	41	0-7795	11	0-0035	41	0-0130
12	13-6889	12	0.2281	42	0:7985	12	0.0038	42	0.0133
13	14-8297	13	0-2472	43	0-8175	13	0-0041	43	0.0136
14	15-9704	14	0.2662	44	0-8365	14	0-0044	44	0-0139
15	17-1112	15	0.2852	45	0-8556	15	0-0048	45	0-0143
16	18-2519	16	0.3042	46	0.8746	16	0-0051	46	0.0146
17	19-3926	17	0-3232	47	0-8936	17	0-0054	47	0.0149
18	20-5334	18	0-3422	48	0.9126	18	0-0057	48	0-0152
19	21-6741	19	0.3612	49	0-9316	19	0-0060	49	0.0155
20	22-8149	20	0.3802	50	0.9506	20	0-0063	50	0.0158
21	23-9556	21	0-3993	51	0-9696	21	0-0067	51	0-0162
20	25-0964	22	0-4183	52	0.9886	22	0.0070	52	0.0165
23	26-2371	23	0-4373	53	1-0077	23	0-0073	53	0-0168
		24	0-4563	54	1-0267	24	0.0076	54	0-0171
100		25	0-4753	55	1-0457	25	0-0079	55	0-0174
193		26	0-4943	56	1-0647	26	0-0082	56	0.0177
	15.50	27	0-5133	57	1-0837	27	0-0086	57	0-0181
		28	0.5323	58	1-1027	28	0-0089	58	0-0184
		29	0-5514	59	1-1217	29	0-0092	59	0-0187
		30	0-5704			30	0.0095		

THE BRAHMA-SIDDHANTA OF BRAHMAGUPTA (A.D. 628).

WORKING TABLES FOR COMPUTATION OF ANCIENT DATES BY THE TRUE, OR APPARENT, MOTIONS OF SUN AND MOON.

311. In para, 257 of my article in the Epigraphia Indica (Vol. XIV, pp. 241f.) on "The true longitude of the sun in Hindu astronomy, the Siddhānta-Śirōmani" and again in a later article (Vol. XV) on The Siddhānta-Śirōmani, § 271 I discussed the question of the values assigned in the seventh century A.D. by Brahmagupta to the twenty-four base-sines of angles in the quadrant; and expressed the opinion that when, but not until, definite assurance was obtainable that the values stated in the only available copies of the Brahma-Siddhānta¹ were really those fixed by its author, working Tables framed according to its postulates might safely be prepared for the computation of ancient dates.

In response to my appeal Mr. G. R. Kaye (Curator, Board of Education, Simla) has been kind enough to assist me. He tells me that there can be no doubt but that the values given for the several base-sines in the edition of the Brahma-Siddhānta printed and published in Benares are correct, and that Brahmagupta certainly made his calculations with a radius (sin. 90°) of 3270′, discarding that of 3438′, which seemingly had been in use in India since the time of the Greeks. Mr. Kaye went fully into the subject in a very learned article, "Aucient Hindu Spherical Astronomy," published in the Journal of the Asiatic Society of Bengal in 1919 (New Series, Vol. XV, No. 3), which contains (Table 8, p. 187) a list of the sine-values as determined by the authors of the Paulisa-, Arya-, and Brahma-Siddhāntas. He points out that, when properly applied, the equations of the san's and moon's centres obtained from the sine-values of Brahmagupta agree with those derived from the values assigned by the other authorities.

Accordingly I have prepared the Table of Brahmagupta's sines and resulting base-equations of the sun's centre (Table LXXXIX below); and a comparison between these and the equations of the Siddhānta-Širōmani (Table XLVII above and Prof. Jacobi's Tables, XXIV-B, Epig, Ind., Vol. I) proves that there is only a very trifling difference whether we use Brahmagupta's, or the older—and later—sine-values. By the Siddhānta-Širōmani, with radius 3438', the sun's greatest equation, that of 90°, is 2° 10' 31", exact. By the Brahma-Siddhānta, with radius 3270', it is 2° 10' 31".19. We may therefore safely use Table LXXXIX (below)³ and Table LIX (above) for the sun's and moon's equations by the Brahma-Siddhānta.

312. The Brahma-Siddhānta was composed by Brahmagupta in A.D. 628 and is said to have been extensively used in some parts of India, its principal rival being the Ārya-Siddhānta of Āryabhaṭa, known in later years as the Laghu-Ārya to distinguish it from the Mahā-Ārya-Siddhānta of the tenth century. This last, called also the Second Ārya-Siddhānta, seems to have had no great following. The Rāja-mṛiyānka, an astronomical work of A.D. 1042, introduced, according to the information available to the late Sankara Balkrishna Dikshit some important changes into the system of Brahmagupta; but unfortunately no complete copy of it has yet been obtained, and the necessary particulars are not to be found in those fragments

¹ One MS, copy in the India Office, London, and the Benares printed edition.

It would be interesting to learn his reason for the change. Later Indian astronomers reverted to the radius of 3438′, Sin. 90°=radius. With w (ratio of diam. to circumf.) = 3·14159, its accepted modern value, the radius = 3437·74967. According to the Ārya- and Sūrya-Siddhāntas it is taken as 3·438′. Archimedes ratio was w = 3·14285. The Sūrya-Siddhānta alludes to a ratio = 1: √10, which works out to 3·16228. Brahmagupta's radius being 3270′, his ratio must have been = 3·203, which is quite different to any of these others.

³ Or Table XLVII (above), col. 9; also Professor Jacchi's Tables XXIV-A, XXIV-B (Epig. Ind., Vol. I).

which have come to light. It is not possible therefore to frame any accurate Tables for calculation by the Raja-mpiganka, and we must rest satisfied with the assurance of Mr. S. B. Dikshit1 that the Siddhanta-Siromani is the same as the Raja-mriganka in the matter of calculation of an almanack. Tables for use by the former have already been published by me, comprising the period A.D. 1100-1750 (above).

All the authorities appear to arrive at similar or almost similar results in their computation of the lunar tithis, when worked by the true or apparent motions of sun and moon; but, since they differ in their estimate of the position of the sun's apsis at a given date, they necessarily differ somewhat in their estimate of the moment in each year when the true sun reaches long. 00, the moment, that is, of "true Mesha-samkranti." This difference leads to differences in the lengths of the true solar months, and consequently to differences in the intercalation and suppression of true lunar months; which differences, again, occasionally cause differences of a whole lanar month in the beginning of the luni-solar year and differences in the names of some of the lunar months therein.

But we are now better able to deal with these matters than before. Dates can be easily computed by the true motions of sun and moon according to the Surya-Siddhanta for the whole historical period from A.D. 300 to 1900 (Indian Calendar)2; according to the Arya-Siddhanta from A.D. 900 to 1900 (above); according to the Brahma-Siddhanta (the present paper) from A.D. 600 to 1200; and according to the Siddhanta-Siromani, Raja-mriganka and other works of the time of Bhaskaracharya from A.D. 1100 to 1900 (above); these periods comprising the outside limits of use.

And, as regards computation by the mean motions of snn and moon, which system is believed to have been in universal use down to about A.D. 1100, and perhaps in some places to a considerably later date, we now have Tables for work by the Arya-Siddhanta from A.D. 500 to 1400 (above), and by the Brahma-Siddhanta, from A.D. 500 to 1400 (below).

All these Tables are framed on the same system, so as to enable calculation to be made as easily and rapidly as possible.

Elements of the Brahma-Siddhanta.

- 313. (i) The length of the mean solar sidereal year is 365.2584375 days, or 3654 6h 12m 9s The Siddhanta-Siromani adhered to this estimate.
- (ii) Brahmagupta's sines of angles of the quadrant differ from those of the other authorities. His sine of 90°, the radius, = 3270' instead of 3438'. His sine of 3° 45' = 214' instead of 225'. The 24 base-sines are given in Table LXXXIX below.
- (iii) The equations, however, which are based on these sine-values are practically the same as those of the Siddhanta-Siromani (compare Table XLVII above, col. 9, and Table LXXXIX below). Tables LV, LVI, LIX (above) may be therefore used as well for the Brahma-Siddhīnta as for the Siddhānta-Širomani.
- (iv) The greatest equation of the sun's centre, that of 90°, is, in 10,000ths of the circle, 60.425925. The greatest equation of the moon's centre is, in similar measurement, 139-855101652. The sum of the two is 200-284027777.

¹ Indian Calendar, p. 8.

² Also by the Indian Chronology of Dewan Bahadur L. D. Swamikannu Pillai, M.A., whose Tables are framed on different system.

- (v) The epoch of the Kaliyuga era was mean sunrise, taken as 6 A.M., on Friday, 18 February, B.C. 3102, that moment being 0th 0th 0th Lankä time. This was the moment of mean Mēsha-sainkrānti, when the mean sun's centre reached long. 0°. True Mēsha-sainkrānti, when the true sun's centre reached long. 0°, occurred on Tuesday, 15 February, B.C. 3102, at 19th 52th 21th 5 after mean sunrise at Lankā.
- (vi) The circumference of the sun's epicycle is 13° 40′, that of the moon 31° 46′. The epicycles are not contracted at any point. In this the Siddhānta-Sirāmaņi concurs (Jacobi, Epig. Ind., Vol. I, p. 441).
- (vii) The line of apsides of the sun's orbit has a constant forward shift, the perigee-point (on the longitude of which all calculations in this volume are based) moving 0".144 per ann., or 14"4 in a century. According to the Siddhānta-Širāmani the movement is more rapid, amounting to 1".044 per ann. (Jacobi, op. cit.).
- (viii) The *sõdhya*, or time-interval between true and mean Mēsha-sainkrāntis, was, in K.Y. 0 or at the epoch of the Kaliyuga era, according to Dr. Sehram, 2:171971 or 2^d 4^h 7^m 38^s.5. With this the Siddhānta-Širōmani agrees. But in later years the scdhya, as postulated by the two authorities, differs in value owing to the difference between the two Siddhāntas in their estimate of the movement of the sun's apsis. (See vii above.)
- (ix) The position of the sun's apsis (perigee) at K.Y. 0, the epoch of the Kaliyuga, was 257° 45′ 36″,² and his mean anomaly was 102° 14′ 24″, or, in 10,000ths of the circle, 284·0.
- (x) The position of the moon's apsis (perigee) at the same moment was 305° 29′ 46" 3; and her mean anom. was 54° 30′ 14", or, in 1,000ths of circle, 151·399691358.
- (xi) The sun's mean velocity (he is treated as a planet) and the length of the mean solar year being the same both by the Brahma-Siddhānta and the Siddhānta-Sirōmaṇi, his mean long, at any moment must be the same by both, and so also the length of the mean solar month. But the two authorities are not in exact accord as to his true long, and the length of the true solar month.

Shift of sun's apsis. The śōdhya. Length of true solar year.

314. The length of the mean solar year being the same, viz. 365^d 6^h 12^m 9^s, by both the Brahma-Siddhānta and the Siddhānta-Śirōmaṇi, the first portion of § 273 above and accompanying Table A apply as well to the former as to the latter. But for the latter portion of that section and its Table B, the following must be substituted when dealing with the Brahma-Siddhānta, the two authorities not being in accord as concerns the matter in question.

315. As stated above, the sun's perigee-point according to the Brahma-Siddhānta advances annually 0°-144 along the ecliptic, and in consequence of this shift the true sun's velocity at long. 0° is a little greater every year than the year before, i.e. the true sun reaches long. 0°, or the moment of true Mēsha-samkrānti occurs, a little earlier each year. In every year there is a slight increase in the distance and time-difference (our sōdhya) between the mean and true suns at that point of the orbit. Dr. Schram has carefully calculated the value of this sōdhya at the moment of true Mēsha-samkrānti at the beginning of several millenniums, and his results for the period embraced in my general working Table LXXXII are stated in the following Table B.

^{&#}x27; Indian Chronography, § 39 D. p. 16.

⁹ Jacobi, Epig. Ind., Vol. I, p. 442, § 83, where he gives the place of the apsis (apagee) as 77° 45′ 36°. See also E. Burgess's "Savya-Siddhānta."

Meon's apogee given by Jacobi as 125° 29' 46".

TAB	LE	В.
VALUE OF SODHYA BY	THE	Brahma-Siddhānta.

K.Y. year	A.D.	EXACT VA	THE PARTY	252.0	20000	The state of the s
expired.	a.b.	days and decimals.			8,	
3700	599-600	2-1729145	2	4	8	59-8128
#800	699-700	2-1729400	2	4	9	2.0160
3900	799-800	2-1729655	2	4	9	4:2192
4000	899-900	2.1729910	2	4	9	6:4224
4100	999-1000	2:1730165	2	4	9	8-6256
4200	1099-1100	2:1730420	2	4	9	10.8288
4300	1199-1200	2:1730675	2	4	9	13:0320

One result of this shift of apsis is that, by the Brahma-Siddhānta, the true sun reaches the 0° point of long. 0°022032 earlier every year than the year before, and in consequence the length of the true solar year, or the time needed for the true sun to travel from true Mēsha-samkrānti in one year to true Mēsha-samkrānti in the next, is (3654 6h 12m 9°-0°022032) 3654 6h 12m 8°977968. [The exact moment of true Mēsha-samkrānti in each year from A.D. 599 to 1200 is given in the general Table LXXXII below, cols. 13-17. It can be tested by the use of Table A, § 273, referred to above, and Table B here given, using the "longer rule" stated in § 273 or in Indian Chronography, p. 61.]

Another result of the shift is that the sun's mean anomaly, or the mean sun's distance from the sun's perigee-point, decreases every year by 0°·144 or 14°·4 in a century. Reckoned in 1.000ths of circle for valuation of our "c" (sun's mean anom.) in the Tables, 14°·4 = 0·01. The value of "c" therefore decreases 0·01 in a century, and this decrease has to be taken into account from K.Y. 0, the epoch of the Kaliyuga. This has been done in the preparation of the Tables which follow.

The increase of "a", "b", "c", in centuries, years, days and fractions of days.

316. Following on what has been stated, we learn that Tables LIVA and B, which deal with the periodical increases of "a", "b" and "c" according to the Siddhānta-Śirōmaṇi, may safely be used for calculation by the Brahma-Siddhānta, with the one reservation as to the increase of "c" in a century. "a" being the distance of mean moon from mean sun, and the lengitude of the mean sun not being affected by the shift of apsis, but only his mean anoma, or distance from the point of the apsis, it appears that the rate of increase of "a" must be same by both anthorities.

As to the rate of increase of "c" it is, by the Siddhānta-Sirōmani, centennially less by 0.0805 (§ 273 above), and this was taken into account in the preparation of the heading of Table LIVA, where a footnote is appended shewing what the rate of increase would be per century if no such deduction had been made. This rate is, in thousandths of a circle, 997-690008075 in a century of 26525 days, and 0.427795618 in a century of 36526 days. By the Brahma-Siddhānta, the centennial decrease in the sun's mean anomaly being 0.01, the amount of increase of "c" per century is, for a century of 36525 days, 997-678896964, and for a century of 36526 days is

0.416684507. The difference between the two authorities in shorter periods may be ignored except in some extraordinarily close case. If it is ever needed, the increase in "c" in one year may be reduced by 0.0001 from the Table quantity.

Otherwise Tables LIV-A and B stand good for calculations by the Brahma-Siddhanta.

The values of " a", " b", " c" at the beginning of K.Y. 3700.

- 317. The general Table LXXXII below begins from the beginning of K.Y. 3700 expired. Table LXXXVI states the value of "a", "b", "c" at that moment, and at the similar moment at the beginning of subsequent centuries. It is necessary therefore to explain how these figures were calculated.
- (i) The value of "a" (distance of mean moon from mean sun) in K.Y. 3700. According to Hindu astronomers mean moon and mean sun were in conjunction at the moment of mean Meshasankrānti in K.Y. 0, the epoch of the Kaliyuga; or, in other words, at that moment "a" = 0. In the 37 succeeding centuries there were 32 common and 5 defective centuries. Taking the century values of "a" given in the heading of Table LIV-A and multiplying for 32 common and 5 defective centuries, we arrive at the figure 6567·108945284 as the value of "a" at the beginning of the 37th century K.Y., whole revolutions of 10,000 each being omitted. From this figure has to be deducted,—according to the working system of the Indian Calendar, which follows Largeteau and Jacobi,—the sum of the greatest equations of sun and moon, vir. 200·284027 (above § 313, iv). This gives us the value of "a" at the beginning of K.Y. 3700 (expired) as 6366·824917506.

Now this value stands for mean sunrise of Sunday, 22 March, A.D. 599, i.e. for the sunrise succeeding the moment of occurrence of mean Mosha-samkranti in K.Y. 3700; but in all my Tables the calculation is for mean sunrise on the actual day of that occurrence, and we have therefore to deduct one day's value of "a" (viz. 338-631985412—Table LIV-A above) from the above estimate. This done, we have, for mean sunrise on Saturday, $a = 6028\cdot192932094$.

- (ii) The value of "b" (moon's mean anom.) at the same moment. At the epoch of the Kaliyuga the moon's mean anom. was, as stated above (§ 313, x), in 1,000ths of a circle, 151·399691358. Using the century figures of "b" in the heading of Table LIV-A, and multiplying for 32 common and 5 defective centuries, it is found that, excluding whole revolutions of 1,000 each, the result is 604·144838202. Adding the value of "b" at K.Y. 0, as above, we have for the value of "b", at beginning of K.Y. 3700, 755·544529560. But this (see above, i) was its value at mean sunrise on Sanday, 22 March, A.D. 599. Deducting one day's value of "b" (36·291649786) the fixture for mean sunrise on Saturday, 21 March, amounts to 719·252879774.
- (iii) The value of "c" (the sun's mean anom.) at the same moment. The correct increase of "c" by the Brahma-Siddhānta in centuries of 36525 and 36526 days has been given above in the latter part of § 316. Multiplying those quantities for 32 common and 5 defective centuries, and discarding whole revolutions of 1,000 each, we arrive at the increase, after 37 centuries, of 1.728389044. To this has to be added the value of "c" at K.Y. 0 (above, § 313, ix), viz. 284.0. The value of "c", therefore, at mean sunrise of Sunday, 22 March, A.D.5 99, was 285.7283890448. Deducting the "c" for one day (2.737787543) we have finally, for mean sunrise on Saturday, 21 March, "c"=282.990601501.

¹ Professor Jacobi differs by about 17 units. He gives the figure 6384-0 (Epig. Ind., Vol. XI, p. 167, Table IXA). I can give no explanation of the reason for this; and can only state fully, as in the text, my bases of calculation.

^{*} Professor Jacobi's figure for this is 758'1, in my notation, against my 755'5.

This agrees with Professor Jacobi's fixture, which, measured from purigeo and in my notation, is 285%.

The entries, therefore, for the aforesaid Saturday of K.Y. 3700 in Table LXXXVI below are

a = 6028:1929b = 719:2529

c = 282.9906.

The rest of that Table follows by addition of the proper century values.

Duration of true solar months.

318. It has been mentioned above (§ 313, xi) that, while the length of the mean solar month must be the same both by the Brahma-Siddhānta and the Siddhānta-Širōmani, the lengths of the true solar months according to the two anthorities differ because of their different estimate of the shift of the sun's apsis. Thus in K.Y. 4000, the middle year of my general Table LXXXII below, the sun's perigee-point according to the Siddhānta-Širōmani was at long. 258° 55' 12', while by the Brahma-Siddhānta it was at long. 257° 55' 12'. Hence the velocity of the true sun (he is always considered as a planet) at the several true solar samkrāntis, i.e. when the true sun's centre enters the several signs, is not the same by the two authorities quoted. And this has necessitated the preparation of a new Table (LXXXIII-A below), giving the lengths of the true solar months and increase of "a", "b", "c" therein individually and collectively according to the Brahma-Siddhānta.

There being in K Y. 4000 a difference of only 4' 48' between the positions of the sun's perigee, as estimated by the Brahma-Siddhānta and by the First Arya-Siddhānta, the former placing it at 257° 55' 12" and the latter at 258°, it was considered sufficiently safe to use Table XLIX (above) for the true sun's velocity at different points of his orbit in hours and minutes, and Table L-A for seconds. His true long, at each samkrānti was computed from his known mean longitude + the equation of the centre, which was calculated in each case. Thus was obtained the length of each month in days, hours, etc. For the increase of "a", "b", "c" during the periods so determined Tables LIV-A and B, which are applicable to the Brahma-Siddhānta as well as to the Siddhānta-Sirōmani, were used.

Note on work for the nakshatra.

319. In our method of work "s" = the true sun's longitude and "t" = the tithi-index (which shows the true moon's distance from the true sun) at the given moment. s + t = the nakshatra-index "n", which gives the true moon's place in the heavens, or her apparent longitude. The value of "t" is ascertained by the ordinary calculation for a date. The value of "s" has to be found.

By the Arya-Siddhanta the formula for finding "s", "c" being the sun's mean anom. at the given moment, is $s = (c \times 10) + 7226 - \text{eqn. } c$; where the factor 7:26, which represents in 10.000ths of circle the long. of sun's perigee plus the sun's greatest equation, is a constant.

By the Surya-Siddhanta, as exemplified in the Indian Calendar, the numerical factor is not 7226, but varies in the period A.D. 200 to 1200 from 7206:5077 to 7207:4035, being fixed for rough work at 7207. The variation is due to the postulated shift of the sun's perigee-point.

By the inddhanta-Siremani there is, for the same reason, a variation in the numerical factor, viz. from 7252-6466 in A.D. 990 to 7259-0910 in A.D. 1700,—roughly from 7253 to 7259.

¹ See indian Calendar, § 156, p. 97; article on the Siddhanta-Śirömini, above, § 273, " Note on work for the makeratra"; article on the First Arya-Siddhanta, above, § 302; and the several examples given in those papers.

By the Brahma-Siddhānta the numerical factor varies from 7224-5370 in A.D. 600 to 7225-2037 in A.D. 1200 (the limits of the general Table LXXXII below). For rough work therefore by this authority the formula is $s = (c \times 10) + 7225 - \text{eqn. } c$

For more accurate work the value of "c" should be calculated (by the Tables) with decimals, and instead of multiplying "c" by 10 its value should be changed from thousandths of circle (as in the Table-result) to ten thousandths by moving the decimal point one place to the right and, when the whole number consists of four figures, deleting the last figure on the left the value of "eqn. c" can be obtained from Table LVI with great accuracy; and the numerical factor can be taken from the following summary.

K,Y, century.	A.D. century.	Exact factor in formula.	Roughly.
3700	599-600	7224-5370	1
3800	699-700	7224-6481	
3900	799-800	7224-7592	
4000	899-900	7224-8703	7225
4100	999-1000	7224-9814	
4200	1099-1100	7225-0925	
4300	1199-1200	7225-2037	}

Examples.

It is not necessary to give a number of examples of work by the present Tables. The system of calculation being exactly the same as that of the Indian Calendar and throughout the present series of articles, the examples already published for computation by other authorities will suffice, the proper Tables being used, for work by the Brahma-Siddhānta. These Tables are specified in the following pages.

Tables for calculation by the Brahma-Siddhanta.

The system of work for computation of an Indian date will be readily understood by perusal of examples 2 to 11 appended to my paper (above) on the First Ārya-Siddhānta; but the Tables used are of course not all the same. The following list shews how accurate results by the Brahma-Siddhānta are to be obtained in calculation by the movements of true sun and true moon.

Table LXXXII below is the general working Table for the Brahma-Siddhānta for the period A.D. 599 to 1200 (K.Y. 3700 to 4300 expired).

For names of months and of nakshatras in different parts of India, see Table LXII above ("The First Arya-Siddhanta").

For collective duration of mean lunar months see Table LXIII-A of the same article, or Table III, Part I, Indian Calendar.

Table LXXXIII-A below gives, by the Brahma-Siddhānta, the length of the true solar months and their collective duration, with the corresponding increases of "a", "b", "c".

Table LXXXIII-B states the exact value of "c" and of "equation c" at the several true samkrāntis, or moments of the true sun's centre reaching the several signs.

Whole revolutions are not necessary for present purposes, and in our system when "a"→10,000 a whole synodic revolution of the mean moon has been completed.

Table LXXXIII-C shews the value of "c" and of "equation c" at the beginning of each century of the Kaliyuga.

For the increase of "a", "b", "c" respectively in defective and common centuries, and in common years and Leap-years, see Table LIV-A, heading; but note that by the Brahma-Siddhānta the increase of "c" in a defective century of 36525 days is 997-678896964 and in a common century of 36526 days is 0.416684507. Tables LIV-A and B contain the necessary figures for days, hours, minutes and seconds.

Table LXXXIV gives the values of "equation b," and Table LXXXV those of "equation c," for easy calculation by whole numbers, corresponding respectively to Tables VI and VII of

the "Indian Calendar," which stand for the Surya-Siddhanta.

For the more detailed values of "equation b" and "equation c" of moon and sun use Tables LV and LVI above, Vol. XV, as framed for the Siddhanta-Siromani.

For the indices of tithis ("t"), karanas, yōgas ("y") and nakshatras ("n") see Table VIII, "Indian Calendar," or Table LXVIII (above).

For serial numbers of days of a year reckoned from January 1st use Table IX, "Indian Calendar," or Table LXIX (above).

For conversion of tithi-indices and tithi-parts into time Table X, "Indian Calendar," is to be used, or Table LXX (above.)

For finding the week-day according to the European Calendar for any century from A.D. 4 to 2300 see Table LXXI (above), or Table XLI-A and B (pp. 176, 177, "Indian Chronography")

Table LXXXVI gives the values of "a", "b", "c" at the beginning of each century of the

Kaliyuga by the Brahma-Siddhanta.

Table LXXXVII gives the same for odd years of those centuries.

Table LXXXVIII states the daily sunrise values of "a", "b", "e" for a month previous to the day of Měsha-samkranti.

Table LXXXIX sets forth the 24 base-sines of angles of the quadrant according to Brahmagapta, and the corresponding equations of the sun's centre.

TABLE LXXXII.

CONSTRUCTION OF TABLE.

The Table is constructed on the lines of Table I of the Indian Calendar and is to be used in the same way. The columns are numbered similarly,

- Col. 7. The samvatsara-name,—i.e. the name of the Jovian cycle—, of the year is given as determined by my previous calculations (above, Table XLII). Entries in italies point to cases where this samvatsara-name differs from that given to the same year by Sūrya-Siddhānta reckoning.
- Col. 8. Months noted in roman characters are intercalated (adhika) lunar months. Those in italics are suppressed (kshaya) months.
- Cols. 13, 19. Figures in brackets give the serial number of the day measured from January 1st.
- Col. 23. "a"=distance, at mean sunrise (taken as 6 A.M.) on the day noted in cols. 19, 20, of mean moon from mean sun, i.e., phase of moon at that moment; stated in 10,000ths of circle and reduced by the sum of the greatest equations of sun and moon, so that calculation of the equations of "b" and "c" may always be additive.
- Col. 24. "b"=mean anomaly of moon at the same moment, or mean moon's distance from the perigee-point of her apsis, stated in 1,000ths of circle.
- Col. 25. "c"=mean anomaly of sun at the same moment, or mean sun's distance from his perigee-point, stated in 1,000ths of circle.

REMARKS.

- A.D. 629-630, cols. 19, 20. A very close case. The moment of true new moon was less than half a minute after mean sunrise at Lanka on Wednesday, 1st March. And the first sukla tithi of the year ended after mean sunrise on Thursday, 2nd March, which was therefore by rule the first civil day of the luni-solar year. If new moon had taken place more than half a minute earlier the first civil day of the year, "Chaitra sukla I," would have been 1st March.
- A.D. 968-69, col. 8. At the Kumbha samkrānti the true moon was waning. The moment of the next, the Mina, samkrānti occurred about 2½ minutes after the moment of true new moon, so that the true moon was waxing at the Mina samkrānti. Hence the lunar month Phālguna was intercalated. According to the 19-year sequence we should have expected an intercalation of the lunar month Chaitra next following. The sequence shows similar irregularities when examined by other authorities, but only very rarely.
- A.D. 974-75, cols. 19, 20. Close case. The 1st true new moon after the Mina samkrānti occurred 3 minutes before mean sunrise at Lankā on 25th February A.D. 974. That therefore was the day "Chaitra sukla 1."
- A.D. 963-64, 982-83, col. 8. In both these years an intercalation of the lunar month Śrāvaņa instead of Āshāḍha would have been more in accordance with the 19-year sequence, seeing that Śrāvaṇa was the intercalated month in A.D. 1001 and 1020; but prior to A.D. 963 at intervals of 19 years there had been eight intercalations of Śrāvaṇa, and towards the close of such a run a change of conditions generally becomes apparent.
- A.D. 1001-2, 1020-21, col. 8. See the previous note. If in these two years the conditions had made necessary an intercalation of Ashāḍha, the 19-year sequence would have been uninterrupted.
- A.D. 1128-29, col. 8. By the Brahma-Siddhanta the intercalation of Phalguna was clearly demanded. See Remarks preceding Table LX (above), on the same year as worked by the Siddhanta-Siromani.

TABLE

GENERAL TABLE FOR CALCULATION

Conforming to Table I " Indian Calendar"

(See notes on

			EAR.	CURRENT Y	CON				
Intercalated (adhika) and suppressed		MVATSARA-	Jovian Sa			ar year	crama.		
(kshaya) true lunar months		Northern system.	Southern system.	A. D.	Kollam.	Mēshādi solar in Bengal,	Chaitradi Vikrama.	Saka.	Kali.
8a		7	6	5	4	3a	3	2	1
	477				7 100			191	7
300	1(0)	ila	50 An	599-600		6	657	522	3701
3 Jyështha	:0:	gala	51 Pin	*600-01		7	658	523	3702
275	0.5	layukta	52 Ka	601-02		8	659	524	3703
7 Āśvina 11 Māgha (ksh.	{	dhārthin .	53 Sid	602-03		9	660	525	3704
1 Chaitra	18	idra	54 Ra	603-04		10	661	526	3705
444	100	rmati	55 Du	*604-05		11	662	527	3706
5 Śrāvaņa		ndubhi	56 Du	605-06	100	12	663	528	3707
***	10	dhirôdgārin .	57 Ru	606-07		13	664	529	3708
	10	ctāksha .	58 Rai	607-08	-	14	665	530	3709
4 Āshādha	6	dhana	59 Kr	*608-09	Artis	15	666	531	3710
	180	aya	60 Ksl	609-10	1	16	667	532	3711
	0.62	bhava	1 Pro	610-11		17	668	533	3712
2 Vaišākha		hava	2 Vil	611-12		18	669	534	3713
200	100	da	3 Sul	*612-13	L-	19	670	535	3714
6 Bhādrapad		mőda	4 Pro	613-14		20	671	536	3715
	(4)	jāpati	5 Pre	614-15	4	21	672	537	3716
		giras	6 An	615-16	Full	22	673	538	3717
4 Ashādha	249	mukha	7 Sri	*616-17		23	674	530	3718
		iva .	8 Bh	617-18	No.	24	675	540	3719
***	100	van	9 Yu	618-19		25	676	541	3720
3 Jyeshth		itri	10 Dh	619-20	0	26	677	542	3721
		ara	11 Iáv	*620-21	- 17	27	678	543	1722

LXXXII.

BY THE BRAHMA-SIDDHANTA.

the columns being similarly numbered.

preceding page.)

		COMM	ENCEMENT O	F THE				
	Solar Year	В.,	LUNI-SOLAR	YEAR (MEAN CHATTE	SUNBISE OF A SUELA I E	CIVIL DAY (ON WHICH	
Day and month A. D.	Week- day.	Time of true Mësha-sam- kranti.	Day and month A. D.	Week-day.	а	8	e	Kali.
13	14	17	19	20	23	24	25	1
TO A TO A TO A TO A TO A TO A TO A TO A	-450	H. M. S.	Venta Maria					
19 Mar. (78)	5 Thur.	1 6 0	3 Mar. (62)	3 Tues.	9932-8171	66-0032	233-7104	3701
18 Mar. (78)	6 Fri.	7 18 9	21 Feb. (52)	1 Sun	147-1720	949-5390	205-6250	3702
18 Mar. (77)	0 Sat	13 30 18	11 Mar. (70)	0 Sat	181-8544	885-5324	256-9354	3703
18 Mar. (77)	1 Sun.	19 42 27	28 Feb. (59)	4 Wed.	57-5772	732-7766	226-1121	3704
19 Mar. (78)	3 Tues.	1 54 36	18 Feb. (49)	2 Mon.	271-9320	616-3122	203-5023	3705
18 Mar. (78)	4 Wed.	8 6 45	7 Mar. (67)	0 Sat	9967-9825	516-0140	246-5994	3703
18 Mar. (77)	5 Thur.	14 18 54	24 Feb. (55)	4 Wed.	9843-7052	363-2681	215-7762	3707
18 Mar. (77)	6 Fri.	20 31 3	15 Mar. (74)	3 Tues.	9878-3876	299-1516	267-0865	3708
19 Mar. (78)	I Sun	2 43 12	4 Mar. (63)	0 Sat	9754-1105	146-4956	250-2624	3709
18 Mar. (78)	2 Mon	8 55 21	22 Feb. (53)	5 Thur.	9968-4653	30-0312	208-1780	3710
18 Mar. (77)	3 Tues.	15 7 30	12 Mar. (71)	4 Wed.	3-1477	966-0247	259-4884	3711
18 Mar. (77)	4 Wed.	21 19 39	2 Mar. (61)	2 Mon.	217-5025	849-5604	231-4029	3712
19 Mar. (78)	6 Fri	3 31 48	19 Feb. (50)	6 Fri.	93-2254	696-8045	200-5797	3713
18 Mar. (78)	0 Sat	9 43 57	9 Mar. (69)	5 Thur.	127-9077	632-7980	251-8902	3714
18 Mar. (77)	1 Sun	15 56 6	26 Feb. (57)	2 Mon.	3-6306	480-0421	221-0669	3715
18 Mar. (77)	2 Mon	22 8 15	16 Mar. (75)	0 Sat	9999-6810	379-7440	269-6395	3716
19 Mar. (78)	4 Wed.	4 20 24	6 Mar. (65)	5 Thur.	9914-0358	263-2795	241-5542	3717
18 Mar. (78)	5 Thur.	10 32 33	23 Feb. (54)	2 Mon.	9789-7587	110-5236	210-3710	3718
18 Mar. (77)	6 Fri.	16 44 42	13 Mar. (72)	I Sun	9824-4420	46-8171	262-0414	3719
18 Mar. (7/)	0 Sat. ,	22 56 51	3 Mar. (62)	6 Fri	38-7959	930-0528	233-9559	3720
19 Mar. (78)	2 Mon.	5 9 0	21 Feb. (52)	4 Wed.	253-1507	813-5885	205-8705	3721
18 Mar. (78)	3 Tučs.	11 21 9	11 Mar. (71)	3 Tues.	287-8331	749-5820	257-1811	3722

TABLE

				LIV.	RRENT YE	CONCE				
tercalated dhika) and appressed thaya) true ar months		22.3331	MVATSABA. North	Jovian Sa Southern system.	A. D.	Kollam.	Mēshādi solar year in Bengal.	Chattradi Vikrama.	Saka.	Kaï.
8a			7	6	5	4	3a	3	2	1
śvina	7	6. 16	lhānya	12 Bahu	621-22		28	679	544	3723
***		. 186	idin .	13 Pram	622-23		29	680	515	3724
			ma .	14 Vikra	623-24		30	681	518	3725
rāvaņa	5	¥ 141		15 Vrish	*624-25		31	682	547	3726
***			bhānu	16 Chitr	625-26		32	683	548	3727
***		7 (6)	inu .	17 Subh	626-27		33	684	517	3728
adbāda	4	. (*)	un .	18 Tāraņ	627-28	Judi	34	685	550	3729
***		2 15	iva .	19 Pärth	*628-29		35	683	551	3730
222		8 8		20 Vyay	629-30	J. 177.	36	687	552	3731
nišākha	2		jit .	21 Sarva	630-31	1000	37	688	553	3732
***		2 15	dhàrin	22 Sarva	631-32		38	689	554	3733
hādrapada	6		hin .	23 Virod	*632-33	- Lad	39	690	555	3734
444	-	9 6	to so	24 Vikri	633-34		-40	691	556	3735
			N 560	25 Khar	634-35		41	692	557	3736
ahādha	4	4 183	ans .	26 Nand	635-36		42	693	558	3737
***			а .	27 Vijay	*636-37		43	694	559	3738
***		4	4 at	28 Jaya	637-38		44	695	560	3739
yështha	3		natha .	29 Manr	638-39		45	696	561	3740
***	1		nukha .	30 Durn	639-40		46	697	562	3741
évina	7		alamba	31 Hém	*640-41	To a little	47	698	563	3742
***			iba .	32 Vilan	641-42		48	699	564	3743
***			rin .	33 Vikā	642-43		49	700	565	3744
civaga		, .	rin .	34 Šārvo	643-44		50	701	566	3745
***				35 Play	*644-46		51	702	587	3746
***			akrit .	36 Subh	645-46		52	703	568	3747

LXXXII-Contd.

		COM	MENCEMENT	OF THE				
	Solab yea	n.	LUNI-SOLAI		AN SUNRISE O		ON WHICH	
Day and month A. D.	Week- day,	Time of true Mësha-sam- krënti.	Day and month A. D.	Week-day.	d	ь	ø	Kali
13	14	17	19	20	23	24	25	1
18 Mar. (77)	4 Wed.	H. M. S. 17 33 18	28 Feb. (59)	0 Sat.	163-5560	Photograph 1	000	
18 Mar. (77)	5 Thur.	STATE OF THE	THE PARTY OF THE P	Felling)		596-8261	226-3577	3723
19 Mar. (78)	44		18 Mar. (77)	5 Thur.	9859-6063	496-5279	274-9303	3724
18 Mar. (78)	100000	5 57 36	8 Mar. (67)	3 Tues,	73-9612	380-0635	246-8449	3725
18 Mar. (77)	Statement of	1000	25 Feb. (56)	0 Sat	9949-6840	227-3076	216-0218	3726
	2 Mon	18 21 54	15 Mar. (74)	6 Fri	9984-3664	163-3011	267-3321	3727
19 Mar. (78)	4 Wed.	0 34 3	4 Mar. (63)	3 Tues.	9560-0892	10-5451	236-5089	3728
19 Mar. (78)	5 Thur.	6 46 12	22 Feb. (53)	1 Sun. ,	74-4441	894-0800	208-4235	3729
18 Mar. (78)	6 Fri.	12 58 21	12 Mar. (72)	0 Sat	109-1265	830-0742	259-7340	3730
18 Mar. (77)	C Sat	19 10 30	2 Mar. (61)	5 Thur. (†)	Maria San	713-6100	231-6485	3731
19 Mar. (78)	2 Mon.	1 22 39	19 Feb. (50)	2 Mon.	199-2041	560-8540	200-8252	3732
19 Mar. (78)	3 Tues.	7 34 47	9 Mar. (68)	0 Sat.	9895-2545	461-5558	249-3979	3733
18 Mar. (78)	4 Wed.	13 46 56	26 Feb. (57)	4 Wed.	9770-9774	307-7999	218-5748	3734
18 Mar. (77)	5 Thur.	19 59 5	16 Mar. (75)	3 Tues.	9805-6597	243-7934	269-8851	3735
19 Mar. (78)	0 Sat. ,	2 11 14	6 Mar. (65)	I Sun	20-0146	127-3290	241-0922	3736
19 Mar. (78)	1 Sun	8 23 23	23 Feb. (54)	5 Thur.	9895-7375	974-5731	210-9765	3737
18 Mar. (78)	2 Mon.	14 35 32	13 Mar. (73)	4 Wed.	9930-4199	910-5666	262-2870	3738
18 Mar. (77)	3 Tues.	20 47 41	3 Mar. (62)	2 Mon.	144-7746	794-1023	234-2015	3739
19 Mar. (78)	5 Thur.	2 59 50	20 Feb. (51)	6 Fri.	20-4975	641-3463	203-3783	3740
19 Mar. (78)	6 Fri	9 11 59	11 Mar. (70)	5 Thur.	55-17119	577-3300	251-6887	3741
18 Mar. (78)	0 Sat	15 24 8	28 Feb. (59)	2 Mon.	9930-9027	424-5838	223-8655	3742
18 Mar. (77)	1 Sun	21 36 17	18 Mar. (77)	1 Sun	9965-5851	360-5774	275-1759	3743
19 Mar. (78)	3 Tues.	3 48 26	7 Mar. (66)	5 Thur.	9841-3081	207-8213	244-3527	3744
19 Mar. (78)	4 Wed.	10 0 35	25 Feb. (56)	3 Tues.	55-6628	91-3571	216-2673	3745
18 Mar. (78)	5 Thur.	16 12 44	15 Mar. (75)	2 Mon	90-3451	27-3506	267-5776	3746
8 Mar. (77)	6 Fri	22 24 53	4 Mar. (63)	6 Fri	9966-0680	873-8747	236-7545	3747

TABLE

		AR.	RRENT YE	CONCU				
Interculated (adhika) and suppressed (kshaya) true lunar months.	Northern system.	JOVIAN SA Southern system,	A. D.	Kollam.	Meshādi solar year in Bengal.	Chaitradi Vikrama.	Saka.	Kali.
811	7	6	ō	4	3a	3	2	1.
4 Āshādha	1000	37 Šöbh 38 Kröd	646-47 647-48		53	704 705	569 570	3748 3749
- 0.00	ivasu†	30 Višvi	*648-49	112	55	706	571	3750
2 Vaišākha	rága	41 Plan	649-50	12.4	56	707	572	3751
		42 Kitai	650-51	T IVI	57	708	573	3752
6 Bhadrapada		43 Saun	651-52		58	709	574	5753
***		44 Sadh	*652-53		59	710	575	3754
2 200	thakrit		653-54		60	711	576	3755
4 Āshādha	lhāvin		654-55		61	712	577	3756
		47 Pran	655-56		62	713	578	3757
	ida	48 Ānar	*656-57	2 111	63	714	579	3758
3 Jyeshtha	hasa	49 Rāki	657-58		64	715	580	3759
		50 Anal	658-59		65	716	581	3760
7 Āśvina		51 Ping	659-60		66	717	582	3761
- 1 mm	yukta	52 Kāla	*660-61		67	718	583	3762
***	hārthin	To State	661-62		68	719	584	3763
ő Śrāvaņa	. A	54 Rau	662-63	144	60	720	585	3764
***		55 Duri	663-64		70	721	586	3765
	dubhi		*664-65		71	722	587	3766
4 Āshādha	hiròdgārin		665-66		72	723	588	3767
300	tāksha		666-67		73	724	589	3768
400	Millery S. H. Co.	59 Kröd	667-68		74	725	590	3769
1 Chaitra	g - 14 H	60 Kahr	*668-69		75	726	591	3770
	9 8	1 Prah	669-70		76	727	592	3771
5 Śrāvaya	ava	2 Vibb	670-71		77	728	593	3772

† 40 Parabhava was suppressed.

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	N WHICH		SUNRISE OF A SURLA 1 R		LUNI-SOLAR				SOLAR YEAR	
Kali	c	b	а	Week- day.	Day and month A. D.	arit-	e of ha-si rint	Mē	Week- day.	Day and month A. D.
1	25	24	23	20	19		17		14	13
	000 000	750 1000	100 4000	4 10-1	00 U.J. (50)	S.	M. 37	Н.	1 0	10 M (20)
3748	208-6691	758-1223	180-4229	4 Wed.	22 Feb. (53)	2		4	1 Sun	19 Mar. (78)
3749	259-9795	694-1237	215-1052	3 Tues.	13 Mar. (72)	11	49	10	2 Mon.	19 Mar. (78)
3750	229-1662	541-3679	90-8281	0 Sat	1 Mar. (61)	20	1	17	3 Tues.	18 Mar. (78)
3751	198-3330	388-6119	9966-5509	4 Wed.	18 Feb. (49)	29	13	23	4 Wed.	18 Mar. (77)
3752	249-6435	324-6053	1-2333	3 Tues.	9 Mar. (68)	38	25	5	6 Fri	19 Mar. (78)
3753	218-8203	171-8494	9876-9561	0 Sat.	26 Feb. (57)	47	37	11	0 Sat	19 Mar. (78)
3754	270-1306	107-8429	9911-6385	6 Fri.	16 Mar. (76)	56	49	17	I Sun	18 Mar. (78)
3755	242-0453	991-3786	125-9934	4 Wed.	6 Mar. (65)	5	2	0	3 Tues.	19 Mar. (78)
3756	211-2221	838-6227	1-7162	1 Sun.	23 Feb. (54)	14	14	6	4 Wed.	19 Mar. (78)
3757	262-5325	774-6161	36-3986	0 Sat	14 Mar. (73)	23	26	12	5 Thur.	19 Mar. (78)
3758	234-4470	658-1518	250-7534	5 Thur.	3 Mar. (63)	32	38	18	6 Fri	18 Mar. (78)
3759	203-6238	505-3958	126-5863	2 Mon.	20 Feb. (51)	41	50	0	1 Sun.	19 Mar. (78)
3760	252-1965	405-0977	9822-5266	0 Sat	10 Mar. (69)	50	2	7	2 Mon. ,	19 Mar. (78)
3761	224-1110	288-6334	36-8815	5 Thur.	28 Feb. (59)	59	14	13	3 Tues	19 Mar. (78)
3762	272-6836	188-3353	9732-9319	3 Tues.	17 Mar. (77)	8	27	19	4 Wed.	18 Mar. (78)
3763	244-5982	71-8709	9947-2867	1 Sun	7 Mar. (66)	17	39	1	6 Fri	19 Mar. (78)
3764	216-5129	955-4066	161-6415	6 Fri	25 Feb. (56)	26	51	7	0 Sat	19 Mar. (78)
3765	267-8232	891-4001	196-2239	5 Thur.	16 Mar. (75)	35	3	14	1 Sun	19 Mar. (78)
3766	237-0000	738-6441	72-0468	2 Mon.	4 Mar. (64)	44	15	20	2 Mon.	18 Mar. (78)
3767	206-1768	585-8882	9947-7696	6 Fri	21 Feb. (52)	53	27	2	4 Wed.	19 Mar. (78)
3768	257-4873	521-8817	9982-6410	5 Thur.	12 Mar. (71)	2	40	8	5 Thur.	19 Mar. (78)
3769	226-6640	369-1257	9858-1749	2 Mon.	1 Mar. (60)	11	52	14	6 Fri	19 Mar. (78)
3770	195-8407	216-3699	9733-8977	6 Fri	18 Feb. (49)	20	4	21	0 Sat	18 Mar. (78)
3771	247-1512	152-5632	9768-5801	5 Thur.	8 Mar. (67)	29	16	3	2 Mon.	9 Mar. (78)
3772	219-0059	35-8889	9982-9349	3 Tues.	26 Feb. (57)	38	28	9	3 Tues.	19 Mar. (78)

TABLE

				CONC	TRRENT Y	EAR.			
Kali.	Saka.	Chaitradi Vikrama,	Mēshādi solar year in Bengal.	Kollam.	A. D.	Jovian Sa Southern system.	Northern system.		Intercalated (adhika) and suppressed (kshaya) true lunar months.
1	2	3	3a	4	5	6	7		8a
3773 3774	594 595	729 730	78 79	26	671-72 *672-73	3 Šukli 4 Pran			
3775	596	731	80		673-74	5 Praji			4 Āshādha .
3776	597	732	81		674-75	6 Angi	Married Co.		***
3777	598	733	82	The state of	675-76	7 Śrim	ukha		
3778	599	734	83	Dim	*676-77	8 Bhay	m u u		2 Vaišākha
3779	600	735	84		677-78	9 Yuvi	in		***
3780	601	736	85	1 = 0	678-79	10 Dhát	pi		7 Aśvina
3781	602	737	86	816	679-80	11 Iávar	na , ,		555
3782	603	738	87		*680-81	12 Bahu	idhānya .		***
3783	604	739	88	Limit	681-82	13 Pran	nādin		5 Śrāvaņa
3784	605	740	89		682-83	14 Vikra	ama	4	1 200
3785	606	741	90		683-84	15 Vrish	18	72	944
3786	607	742	91	1,000	*684-85	16 Chitz	abhānu .		3 Jyeshtha
3787	608	743	92	7.1	685-86	17 Subh	ănu		***
3788	609	744	93		686-87	18 Tāra	na		
3789	610	745	94	1117	687-88	19 Parti	hiva	•	1 Chaitra
3790	611	746	95	1 500	*688-89	20 Vijay	ra		+(+)
3791	612	747	96	-	689-90	21 Sarvi			o Stávilja
3792	613	748	97		690-91	22 Sarv	adhārin .	16	***
3793	614	749	98	GUL-	691-93	23 Viro		-	944
3794	615	750	99	INSTA	*692-93	24 Vikri			4 Ashādha
3795	616	751	100	150	693-94	25 Khar			355
3796	617	752	101		694-95	* 26 Nand		3	***
3797	618	753	102	15-0	695-96	27 Vijay	ra .	7	2 Vaišākha .

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S	OLAB YEAR.				LUNI-SOLAR Y		SUNBIŜE OF A ŜUKLA 1 E:		ON WHICH	
Day and month A. D.	Week- day.	Més	e of tr ba-sari rānti,		Day and month A. D.	Week- day.	a	ъ	c	Ka
13	14		17		19	20	23	24	25	1
		H.		S.						
19 Mar. (78)	4 Wed.	15		7	17 Mar. (76)	2 Mon.	17-6173	971-8924	270-3762	377
18 Mar. (78)	5 Thur.	21	755	56	6 Mar. (66)	0 Sat	231-9621	855-4281	242-2907	377
19 Mar. (78)	0 Sat	4	2007	5	23 Feb. (54)	4 Wed.	107-6950	702-6722	211-4676	377
19 Mar. (78)	1 Sun.	10	17 1	4	14 Mar. (73)	3 Tues.	142-3774	628-6656	262-7781	377
19 Mar. (78)	2 Mon.	16	29 2	23	3 Mar. (62)	0 Sat	18-1001	485-9097	231-9548	377
18 Mar. (78)	3 Tues.	22	41 3	31	20 Feb. (51)	4 Wed.	9893-8230	333-1537	201-1315	377
19 Mar. (78)	5 Thur.	4	53 4	10	10 Mar. (69)	3 Tues.	9928-5054	269-1472	252-4420	377
19 Mar. (78)	6 Fri	11	5 4	19	27 Feb. (58)	0 Sat	9804-2283	116-3913	221-6188	378
19 Mar. (78)	0 Sat	17	17 5	58	18 Mar. (77)	6 Fri	9838-9106	52-4848	272-9292	378
18 Mar. (78)	1 Sun	23	30	7	7 Mar. (67)	4 Wed.	53-2655	935-9205	244-8437	378
19 Mar. (78)	3 Tues.	5	42 1	6	25 Feb. (56)	2 Mon.	267-6203	819-4561	216-7584	378
19 Mar. (78)	4 Wed.	11	54 2	15	16 Mar. (75)	1 Sun	302-3027	755-4496	268-0688	378
19 Mar. (78)	5 Thur.	18	6 3	14	5 Mar. (64)	5 Thur.	178-0255	602-6936	237-5456	378
19 Mar. (79)	0 Sat	0	18 4	3	22 Feb. (53)	2 Mon.	53-7384	449-9378	206-4223	378
19 Mar. (78)	1 Sun. ,	6	30 5	12	12 Mar. (71)	1 Sun	88-4308	385-9312	257-7328	378
19 Mar. (78)	2 Mon.	12	43	1	1 Mar. (60)	5 Thur.	9964-1536	233-1752	227-1096	378
19 Mar. (78)	3 Tues.	18	55 1	0	18 Feb. (49)	2 Mon.	9839-8765	80-4194	196-0863	378
19 Mar. (79)	5 Thur.	1	7 1	9	S Mar. (68)	1 Sun	9874-5589	16-4127	247-3967	379
19 Mar. (78)	6 Fri	7	19 2	8	26 Feb. (57)	6 Fri	88-9137	899-9484	219-3114	379
19 Mar. (78)	0 Sat	13		17	17 Mar. (76)	5 Thur.	123-5960	835-9419	270-6218	379
19 Mar. (78)	1 Sun	19		6	6 Mar. (65)	2 Mon.	9999-3189	683-1860	239-7986	379
19 Mar. (79)	3 Tues.	1		15	24 Feb. (55)	0 Sat	213-6738	566-7217	211-7131	379
19 Mar. (78)	4 Wed.	8		4	13 Mar. (72)	5 Thur.	9909-7241	466-4235	210-1858	379
19 Mar. (78)	5 Thur.	14		3	2 Mar. (61)	2 Mon.	9785-4476	313-6675	229-4626	379

TABLE

				R.	RRENT YE	CONCU				
Intercalated (adhika) and suppressed (kshaya) true			ATSABA.	JOVIAN SA	No. of Lot		r year	krama.		
limar months			North	Southern system.	A. D.	Kollam.	Mčshādi solar in Bengal.	Chaitradi Vikrama.	Šaka.	Kali.
8a			7	6	5	4	3a	3	2	1
***				28 Jaya			Transfer of	107		District
6 Bhādrapada	24		flan.	29 Mani	*696-97		103	754	619	3798
		**		30 Duri	697-98	HIL	104	755	620	3799
2015	3			30 Duri	698-99	11/1/1	105	756	621	3800
5 Śrāvana .					699-700	WIE	106	757	622	3801
	1	*		32 Vilar	*700-01	THE	107	758	623	3802
***				33 Vikā	701-02		108	759	624	3803
				34 Sarv	702-03		109	760	625	3804
3 Jyeshtha .		1		35 Play	703-04	30	110	761	626	3805
***				36 Subl	*704-05		111	762	627	3806
377	11.2		in .	37 Sobb	705-06		112	763	628	3897
1 Chaitra .		*	in .	38 Krö	706-07	- 4	113	764	629	3808
***	10	2	asu .	39 Viáv	707-08		114	765	630	3809
5 Srāvaņa			ava .	40 Pari	*708-09		115	766	631	3810
		1	iga .	41 Play	709-10	15.0	116	767	532	3811
100		19		42 Kila	710-11	Total State of	117	768	633	3812
4 Āshādha				43 Sau	711-12	-	118	769	634	3813
***			rana .	44 Sād	*712-13		111	770	635	3814
***		9	akrit	45 Vir	713-14		120	771	636	3818
2 Vaišākha		2.50	. atvän	46 Par	714-15		12	772	637	3816
(444)		(4)	idin .	47 Pra	715-16		12:	772		3817
6 Bhādrapada		/ Dec	ia .	48 Åns	*716-17	111	12	1	A COUNTY	381
11111992			1888 .	49 Rål	717-18		12	90		381
***				50 Am	718-19	5		100	E 23	282
5 Élekvaya			la .	51 Pid	719-20	3		1	- Turner	382
964	14		yukta .	52 Ki	*720-21		20	1		382

LXXXII-Contd.

		COM	MENCEMENT	OF THE				
Se	OLAR YEAR.		Lunt-solar		n sunnise of a sukla 1 m		ON WHICH	
Day and month, A. D.	Week- day.	Time of true Mësha-sam- kranti.	Day and month, A. D.	Week-day.	a	b	c	Kali.
13	14	17	19	20	23	24	25	1
		H. M. S.						
19 Mar. (79)	1 Sun	2 44 31	10 Mar. (70)	6 Fri	34-4841	133-1967	252-6875	3798
19 Mar. (78)	2 Mon.	8 56 40	27 Feb. (58)	3 Tues.	9910-2070	980-4408	221-8643	3799
19 Mar. (78)	3 Tues.	15 8 49	18 Mar. (77)	2 Mon.	9944-8894	916-4343	273-1748	3800
19 Mar. (78)	4 Wed.	21 20 58	8 Mar. (67)	0 Sat	159-2443	799-9700	245-0671	3801
19 Mar. (79)	6 Fri	3 33 7	25 Feb. (56)	4 Wed.	34-9671	647-2140	214-2440	3802
19 Mar. (78)	0 Sat	9 45 16	15 Mar. (74)	3 Tues.	69-6496	583-2074	265-5543	3863
19 Mar. (78)	1 Sun	15 57 25	4 Mar. (63)	0 Sat	9945-3723	430-4516	234-7311	3804
19 Mar. (78)	2 Mon.	22 9 34	21 Feb. (52)	4 Wed.	9821-0852	277-6956	203-9079	3805
19 Mar. (79)	4 Wed.	4 21 43	11 Mar. (71)	3 Tues.	9855-7776	213-6890	255-2184	3806
19 Mar. (78)	5 Thur.	10 33 52	1 Mar. (60)	1 Sun	70-1324	97-2248	227-1329	3807
19 Mar. (78)	6 Fri	16 46 1	18 Feb. (49)	5 Thur.	9946-0956	944-4986	196-3096	3808
19 Mar. (78)	0 Sat	22 58 10	9 Mar. (68)	4 Wed.	9980-5376	880-4623	247-6201	3809
19 Mar. (79)	2 Mon.	5 10 19	27 Feb. (58)	2 Mon.	194-8924	773-9979	219-5348	3810
19 Mar. (78)	3 Tues.	11 22 28	17 Mar. (76)	1 Sun.	230-5748	699-9914	270-8451	3811
19 Mar. (78)	4 Wed.	17 34 37	6 Mar. (65)	5 Thur.	105-2977	547-2355	240-0219	3812
19 Mar. (78)	5 Thur.	23 46 46	23 Feb. (54)	2 Mon.	9981-0206	394-4796	209-1987	3813
19 Mar. (79)	0 Sat	5 58 55	13 Mar. (73)	1 Sun	15-7029	330-4730	260-5092	3814
19 Mar. (78)	1 Sun.	12 11 4	2 Mar. (61)	5 Thur.	9891-4258	178-7171	229-6859	3815
19 Mar. (78)	2 Mon.	18 23 13	20 Feb. (51)	3 Tues.	105-7806	61-2528	201-6004	3816
20 Mar. (79	4 Wed.	0 35 22	11 Mar. (70)	2 Mon.	140-4629	997-2462	252-9109	3817
19 Mar. (79)	5 Thur.	6 47 31	28 Feb. (59)	6 Fri.	16-1858	844-4903	222-0877	3813
19 Mar. (78)	6 Fri	12 59 40	18 Mar. (77)	5 Thur.	50-8682	780-4838	173-3981	3819
19 Mar. (78)	0 Sat	19 11 49	8 Mar. (67)	3 Tues.	265-2231	664-0195	245-3126	3820
20 Mar. (79)	2 Mon.	1 23 58	25 Feb. (56)	0 Sat	140-9458	511-2635	214-4895	3821
19 Mar. (79)	3 Tues.	7 36 7	14 Mar. (74)	5 Thur.	9836-9963	410-9654	263-0622	3822

TABLE

			(Comp.)	1/0/1007/2007	CONCU		-705		
Intercalated (adhika) and suppressed (k-haya) true lunar months.	7,1100	North syste	Jovian S. Southern system.	A. D.	Kollam.	Mëshidi solar year in Bengal.	Chaitradi Vikrama.	Śaka.	Kali.
8a		7	6	5	4	3a	3	2	1
				-					
		hārthin .	53 Sidd	721-22	TVS I	128	779	644	3823
3 Jyështha		dra .	54 Rau	722-23		129	780	645	3824
		mati .	55 Dur	723-24		130	781	646	3825
7 Åšvina 9 Märgal : (ksh)	. 1	dubhi .	56 Dur	*724-25		131	782	647	3826
1 Chaitra		lhirödgárin	57 Rus	725-26	1114	132	783	648	3827
		tāksha .	58 Ral	726-27		133	784	649	3828
5 Śrāvaņa		dhana .	59 Krd	727-28	in the	134	785	650	3829
1.0		mya .	60 Ksl	*728-29	1000	135	786	651	3830
11122		bhava .	1 Pra	729-30	1111	136	787	652	3831
4 Āshādha		hava .	2 Vib	730-31	1000	137	788	653	3832
		ls .	3 Sul	731-32	1	138	789	654	3833
THE REAL PROPERTY.		môds .	4 Pra	*732-33		139	790	655	3834
2 Vaišākha		jāpati .	5 Pra	733-34	100	140	791	656	3838
III		girasa† .	6 An	734-35		141	792	657	3836
6 Bhadrapade	4	iva	8 Bh	735-36		142	793	658	3837
141		van .	9 Yu	*736-37		143	794	659	3838
100		atri .	10 Dh	737-38		144	795	660	3839
5 Sravapa		ara	11 16	738-39		146	796	661	3840
1000		hudhānya	12 Ba	739-40	1	146	797	662	384
		mādin .	13 Pr	*740-41		14	798	2 663	384
		krama .	14 Vi	741-42		14	799	3 664	384
	9	isha .	15 Vr	742-43		14	800	4 665	384
7 Asvina		itrabhānu	16 Ch	743-44		15	801	5 666	384
I Chaitra		bhānu .	17 Su	*744-45		15	800	6 667	384
non-		rapa .	18 Ti	745-46		15	800	7 668	384

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				COMMENCEME	NT OF TH	Œ			
	SOLAR YEAR			LUNI-SOLAR		SUNBISE OF		ON WHICH	
Day and month, A. D.	Week- day.	Měsha	of true a-sam- inti,	Day and month, A. D.	Week-day.	a	b	c	Kab,
13	14	1	7	19	20	23	24	25	1
		н. 2	M. S.	-111-15			100		-
19 Mar. (78)	4 Wed.	13 4	8 15	4 Mar. (63)	3 Tues.	51-3511	294-5011	234-9767	3823
19 Mar. (78)	5 Thur.	20	0 24	21 Feb. (52)	0 Sat	9927-0739	141-7452	201-1534	3824
20 Mar. (79)	0 Sat	2 1	2 33	12 Mar. (71)	6 Fri	9961-7563	77-7385	255-4693	3825
19 Mar. (79)	1 Sun	8 2	4 42	I Mar. (61)	4 Wed.	176-1112	961-2743	227-3785	3826
19 Mar. (78)	2 Mon.	14 3	6 51	18 Feb. (49)	I Sun	51-8342	808-5184	196-5552	3827
19 Mar. (78)	3 Tues.	20 4	9 0	9 Mar. (68)	0 Sat	86-5163	744-5118	247-8656	3828
20 Mar. (79)	5 Thur.	3	1 9	26 Feb. (57)	4 Wed.	9962-2392	591-7559	217-0425	3829
19 Mar. (79)	6 Fri	9 1	3 18	16 Mar. (76)	3 Tues.	9996-9216	527-7493	268-3529	3830
19 Mar. (78)	0 Sat	15 2	25 27	5 Mar. (64)	0 Sat	9872-6444	374-9934	237-5297	3831
19 Mar. (78)	1 Sun	21 3	36	22 Feb. (53)	4 Wed.	9748-3673	222-2374	206-7064	3832
20 Mar. (79)	3 Tues.	3 4	19 45	13 Mar. (72)	3 Tues.	9783-0497	158-2309	258-0169	3833
19 Mar. (79)	4 Wed.	10	1 54	2 Mar. (62)	I Sun	9997-4046	41-7666	229-9215	3834
19 Mar. (78)	5 Thur.	16 1	14 3	20 Feb. (51)	6 Fri	211-7493	925-3023	201-8460	3888
19 Mar. (78)	6 Fri	22 2	26 12	11 Mar. (70)	5 Thur.	246-4417	861-2958	253-1564	3836
20 Mar. (79)	1 Sun	4 1	38 21	28 Feb. (59)	2 Mon.	122-1646	708-5398	222-3332	3837
19 Mar. (79)	2 Mon.	10 4	50 30	18 Mar. (78)	1 Sun	156-8460	644-5333	274-6437	3838
19 Mar. (78)	3 Tues.	17	2 39	7 Mar. (66)	5 Thur.	32-5698	501-7773	242-8204	3839
19 Mar. (78)	4 Wed.	23	14 48	24 Feb. (55)	2 Mon.	9908-2926	339-0214	211-9973	3840
20 Mar. (79)	6 Fri	5 5	26 57	15 Mar. (74)	1 Sun	9942-9751	275-0149	263-2077	3841
19 Mar. (79)	9 sas	11 :	39 6	3 Mar. (63)	5 Thur.	9818-6978	122-2588	232-4845	3845
19 Mar. (78)	1 Sun	17 1	51 15	21 Feb. (52)	3 Tues.	33-0527	5-7947	204-3990	3842
20 Mar. (79)	3 Tues.	0	3 24	12 Mar. (71)	2 Mon.	67-7351	941-7880	255-7105	3841
20 Mar. (79)	4 Wed.	6	15 33	2 Mar. (61)	0 Sat	282-0900	825-3238	227-6240	3845
19 Mar. (79)	5 Thur.	12 5	27 42	19 Feb. (50)	4 Wed.	157-8127	672-5678	196-8007	3845
19 Mar. (78)	6 Fri	18 3	39 51	9 Mar. (68)	3 Tues.	192-4951	608-5613	248-1112	3847

TABLE

		_	_			-	-		1	
				CONCU	RRENT YI	EAR				
		crama.	r year		2 10		Jovian Sa	MYATSARA.		Intercalated (adhika) and suppressed (kshaya) true
Kali.	Śaka.	Chaitradi Vikrama,	Meshādi solar y in Bengal.	Kollam.	A. D.		Southern system.	Northern system.		lunar months.
1	2	3	3a	4	5		6	7		Sa
3848	669	804	153		746-47		, 19 Parti	hiva		5 Śrāvapa .
3849	670	805	154		747-48		20 Vyay	OK + +	-	****
3850	671	806	155	are in	*748-49		21 Sarv	ajit		- 14
3851	672	807	156	Tallie	749-50		22 Sarv	adhārin .	3	3 Jyështha .
3852	673	808	157	1000	750-51		23 Virô	dhin	1	***
3853	674	809	158	100	751-52		24 Vikr	ita -		***
3854	675	810	159	120	*752-53		25 Khai	ra i	-	2 Vaišākha .
3855	676	811	160		753-54		26 Nan	dana		***
3856	677	812	161	Land	754-55		27 Vija	ya ·		6 Bhādrapada
3857	678	813	162		755-56		28 Jaya			***
3858	679	814	163		*756-57		29 Man	matha , ,	9	#"
3859	680	815	164		757-58		30 Dur	mukha	55	4 Āshādha .
3860	681	816	165	1	758-53		31 Hên	nalamba		***
3861	682	817	166	1.000	759-60		32 Vila	mba	54	ec - ***: 111
3862	683	818	167	-	*760-61	6	33 Viki	krin	.54	3 Jyéshtha .
3863	684	819	168		761-62		34 Sarv	mrin	1548	
3864	685	820	169		762-63		35 Play	78		7 Åávina .
3865	686	821	170		763-64	E.	36 Sub	hakrit		344 T.U.
\$866	687	822	171	1	*764-65		37 Śōb	hana	12	- Tay
3867	688	823	172		765-66		38 Krő	āhin	16	5 Srāvaņa .
3868	689	824	173		766-67		39 Viá	visvasu	100	
3869	690	825	174	V	767-68		40 Par	ābhava		***
3870	691	826	175	1	*768-69	11	41 Pla	vanga		3 Jyështha .
3871	692	827	176	1	769-70	-	42 Kih	ska		# 2
3872	693	528	177		770-71		43 San	mya	125	P ILLETS
	1		! =			-	VIII I			

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Kal	N WHICH		SUNRISE OF SURLA 1 EN		Luni-solar			LAR YEAR.	So
	ć	ь	а	Week- day.	Day and month, A. D.	m-	ime of t lësha-sa kränti	Week- day.	Day and month, A. D.
1	25	24	23	20	19		17	14	13
- 220	THE STATE OF	(A) (A) (A) (A) (A)	2000000000	100000A		S.	н. м.		
384	217-2881	455-8054	68-2180	0 Sat	26 Feb. (57)	0	0 52	1 Sun	20 Mar. (79)
384	268-4984	391-7988	102-9003	6 Fri	17 Mar. (76)	9	7 4	2 Mon.	20 Mar. (79)
388	237-7752	239-0429	9978-6232	3 Tues.	5 Mar. (65)	18	3 16	3 Tues.	10 Mar. (79)
384	206-9520	86-2869	9854-3461	0 Sat	22 Feb. (53)	27	19 28	4 Wed.	19 Mar. (78)
387	258-2625	22-2804	9889-0285	6 Fri	13 Mar. (72)	36	1 40	6 Fri	20 Mar. (79)
388	230-1770	905-8161	103-3833	4 Wed.	3 Mar. (62)	45	7 52	0 Sat	20 Mar. (79)
38	202-0915	789-3518	317-7384	2 Mon.	21 Feb. (52)	54	4 4	1 San	19 Mar. (79)
384	250-6642	689-0537	13-7885	0 Sat	10 Mar. (69)	3	10 17	2 Mon.	19 Mar. (78)
384	222-5788	572-5894	228-1433	5 Thur.	28 Feb. (59)	12	2 29	4 Wed.	20 Mar. (79)
384	271-1514	472-2911	9924-1937	3 Tues.	18 Mar. (77)	21	8 41	5 Thur.	20 Mar. (79)
38	240-3282	319-5352	9799-9166	0 Sat	6 Mar. (66)	30	14 53	6 Fri	19 Mar. (79)
38	212-2428	203-0709	14-2714	5 Thur.	24 Feb. (55)	39	21 5	0 Sat	19 Mar. (78)
380	263-5533	139-0644	48-9538	4 Wed.	15 Mar. (74)	48	3 17	2 Mon.	20 Mar. (79)
38	232-7300	986-3084	9924-6766	1 Sun	4 Mar. (63)	57	9 29	3 Tues.	20 Mar. (79)
38	204-6415	869-8442	139-0315	6 Fri	22 Feb. (53)	6	15 42	4 Wed.	19 Mar. (79)
38	255-9550	805-8377	173-7138	5 Thur.	12 Mar. (71)	15	21 .54	5 Thur.	19 Mar. (78)
38	225-1318	653-0816	49-4367	2 Mon.	1 Mar. (60)	24	4 6	0 Sat	20 Mar. (79)
38	276-4422	589-0751	84-1191	1 Sun	20 Mar. (79)	33	10 18	1 Sun. ,	20 Mar. (79)
38	245-6189	436-3192	9959-8420	5 Thur.	8 Mar. (68)	42	16 30	2 Mon.	19 Mar. (79)
38	214-7958	283-5633	9835-5647	2 Mon.	25 Feb. (56)	51	22 42	3 Tues.	19 Mar. (78)
38	266-1062	219-5567	9870-2472	1 Son	16 Mar. (75)	0	4 55	5 Thur.	20 Mar. (79)
38	238-0208	103-0923	84-6020	6 Fri	6 Mar. (65)	8	11 7	6 Fri	20 Mar. (79)
38	207-1975	950-3365	9960-3248	3 Tues.	23 Feb. (54)		17 19	0 Sat	19 Mar. (79)
38	258-5080	886-3299	9995-0072	2 Mon.	13 Mar. (72)	26	23 31	1 Sun.	19 Mar. (78)
38	230-4226	769-8656	appuner.	0 Sat	3 Mar. (62)	35		3 Tues.	20 Mar. (79)

TABLE

				CONC	TRRENT Y	EAR.		
Kall.	Šaka.	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A. D.	JOVIAN SA Southern system.	Northern system.	Intercalated (adhika) and suppressed (kshaya) tru- lunar months
î	2	3	3a	4	5	6	7	8a
3873	694	829	178		771-72	44 Sādh	ārana	2 Vaišākha
3874	695	830	179	-	*772-73	45 Viros	III. desta	- 1 CF - 12 m (Max Max Max
3875	696	831	180		773-74	46 Parid		6 Bhādrapads
3876	697	832	181		774-75	47 Pram	E.AT.	
3877	698	833	182		775-76	48 Ānan		
3878	699	834	183		*776-77	49 Rāks	77.00	4.7.1.11
3879	700	835	184		777-78	50 Anals		The state of the s
3880	701	836	185		778-79	51 Piùga		
3881	702	837	186		779-80	52 Kālay		1
3882	703	838	187		*780-81	53 Siddh		175 1275
3883	704	839	188		781-82	54 Raudi		100 miles
3884	705	840	189	411	782-83	55 Durm		
3885	706	841	190	Tours.	783-84	56 Dund	1117	
3886	707	842	191		*784-85	57 Rudhi	and and a	5 Śrāvaņa
3887	708	843	192		785-86	58 Raktā	la Kanana and a san and a san a san a san a san a san a san a san a san a san a san a san a san a san a san a	A STATE OF THE STA
3888	709	844	193	-	786-87	59 Krôdh		***
3889	710	845	194		187-88	60 Kahay		9 1-2-1-1
3890	711	846	195	100	*788-89	1 Prabh	242 E	3 Jyrahtha .
891	712	847	196		789-90	2 Vibha	AL .	***
8892	713		50,000		790-91	3 Sukla		0.57.0001
1893	65	848	197		Contract of the Contract of th		4.	2 Vaiéākha .
894	714	849	198		791-93	4 Pramô		***
	715	850	199		*792-93	5 Prajap		6 Bhādrapada
1895	716	851	200		793-94	6 Angira	4.0	
1896	717	852	201		794-95	7 Śrimul		***
897	718	853	202		795-96	8 Bhiva		4 Āshādha .

LXXXII-Contd.

				OF THE	MENCEMENT	COM		
	ON WHICH	CIVIL DAY (SUNRISE OF	YEAR (MEAN CHAITE.	LUNT-SOLAR		Solar year	
Kali.	0	6	a	Week- day,	Day and month, A. D.	Time of true Mësha-sam- kranti.	Week-	Day and month, A. D.
1	25	24	23	20	19	17	14	13
1						H. M. S.		
3873	199-5993	617-1097	75-0849	4 Wed	20 Feb. (51)	11 55 44	4 Wed. ,	20 Mar. (79)
3874	250-9097	553-1032	119-7672	3 Tues	10 Mar. (70)	18 7 53	5 Thur. ,	19 Mar. (79)
3875	220-0866	400-3472	9995-4901	0 Sat	27 Feb. (58)	0 20 2	0 Sat	20 Mar, (79)
3876	271-3970	336-3366	30-1725	6 Fri. ,	18 Mar. (77)	6 32 11	1 Sun	20 Mar. (79)
3877	240-5738	183-5848	9905-8953	3 Tues	7 Mar. (66)	12 44 20	2 Mon	20 Mar. (79)
3878	212-4883	67-1204	120-2501	1 Sun.	25 Feb. (56)	18 56 29	3 Tues	19 Mar. (79)
3879	263-7988	3-1139	154-9326	0 Sat	15 Mar. (74)	1 8 38	5 Thur	20 Mar. (79)
3880	232-9756	850-3579	30-6554	4 Wed	4 Mar. (63)	7 20 47	6 Fri	20 Mar. (79)
3881	204-8901	733-8937	245-0102	2 Mon	22 Feb. (53)	13 32 56	0 Sat	20 Mar. (79)
3882	256-2005	669-8872	279-6926	1 Sun. ,	12 Mar. (72)	19 45 5	1 Sun	19 Mar. (79)
3883	225-3773	517-1311	155-4155	5 Thur	1 Mar. (60)	1 57 14	3 Tues	20 Mar. (79)
3884	273-9500	416-8330	9851-4659	3 Tues. ,	19 Mar. (78)	8 9 23	4 Wed	20 Mar. (79)
3885	243-1167	264-0770	9727-1887	0 Sat.	8 Mar. (67)	14 21 32	5 Thur	20 Mar. (79)
3886	215-0413	147-6128	9941-5435	5 Thur.	26 Feb. (57)	20 33 41	6 Fri	19 Mar. (79)
3887	266-3517	83-6062	9976-2260	4 Wed	16 Mar. (75)	2 45 50	1 Sun	20 Mar. (79)
3888	238-2664	967-1418	190-5807	2 Mon	6 Mar. (65)	8 57 59	2 Mon	20 Mar, (79)
3889	207-4431	814-3852	66-3036	6 Fri. ,	23 Feb. (54)	15 10 8	3 Tues, .	20 Mar. (79)
3890	258-7535	750-3794	100-9860	5 Thur	13 Mar. (73)	21 22 17	4 Wed	19 Mar. (79)
3891	227-9303	597-6235	9976-7089	2 Mon	2 Mar. (61)	3 31 26	6 Fri	20 Mar. (79)
3892	197-1071	444-8676	9852-4317	6 Fri.	19 Feb. (50)	9 46 35	0 Sat	20 Mar. (79)
3893	248-4175	380-8610	9887-1140	5 Thur.	10 Mar. (69)	15 58 44	1 Sun	20 Mar. (79)
3894	218-4943	228-1051	9762-8369	2 Mon	27 Feb. (58)	22 10 53	2 Mon. ,	19 Mar. (79)
3895	268-9047	164-0986	9797-5192	1 Sun	17 Mar. (76)	4 23 2	4 Wed	20 Mar. (79)
3896	240-8194	47-6343	11-8741	6 Fri	7 Mar. (66)	10 35 11	5 Thur	20 Mar. (79)
3897	212-7339	931-1699	226-2289	4 Wed.	25 Feb. (56)	16 47 20	6 Fri.	20 Mar. (79)

TABLE

	-			CONCU	RRENT YE	AR.			
		cama.	year	16/3		Jovian Sa	MVATSARA.		Intereslated (adhika) and suppressed
Kali.	Šaka.	Chaitradi Vikrama.	Möshädi solar in Bengal.	Kollam.	A. D.	Southern system.	Northern system.		(kshaya) true lunar months.
1	2	3	3a	.4	5	6	7		8a
3898	719	854	203		*796-97	9 Yuv	an		
3899	720	855	204	Tree!	797-98	10 Dhão	tri	4	***
3900	721	856	205	115	798-99	11 Isva	m 4 ·		3 Jyeshtha .
3901	722	857	206	Halley	799-800	12 Bah	udhānya .	U.	***
3902	723	858	207	-	*800-01	13 Pran	nādin	22	7 Aévina .
3903	724	859	203		801-02	14 Vikt	ama		***
3904	725	860	209		802-03	15 Vris	ha	3	40.
3905	726	861	210		803-04	16 Chit	rabhānu .	4	5 Śrāvaņa .
3906	727	862	211		*804-05	17 Sub	hānu	54	***
3907	728	863	212		805-06	18 Tân	ana	(4)	
3908	729	864	213		806-07	19 Part	thiva	13	3 Jyështha .
3900		865	214		807-08	20 Vya	уа	10	
3910	7000	866	215	i muc	*808-09	21 Sars	rajit	120	
3911	732	867	216		809-10	22 Sar	vadhārin .	(0)	1 Chaitra .
3912	10000	868	217	P	810-11	23 Vird	idhin	161	***
3913	3577	869	218		811-12	24 Vik	rita	1	ō Śrāvaņa .
3914		870	219		*812-13	25 Kh	ara	(*)	•••
3015	Tuesda.	871	220	-	813-14	26 Nar	idana		.005
3916		872	221		814-15	27 Vije	aya		4 Åshādha .
3917		873	1		815-16	28 Jay		1	***
3918		874		4	*816-17	29 Mai	imatha		
3919	N. S. S.	140-23	000		817-18	30 Du	rmukha		3 Jyështha .
3920	1	876	-		818-19	31 Hē:	malamba .		
3921	2 21/2				819-20	32 Vile	amba †		/ Asvina
392	2000				*820-21	34 Śār	varin		- 100

^{† 33} Vikārin was suppressed.

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			1	OF THE	MENCEMENT	COM		
	ON WHICH		n sundise of a éukla 1 et		LUNI-SOLAB	L.	Solar year	
Kaii	c	b	a	Week- day.	Day and month A. D.	Time of true Mësha-sam- kranti.	Woek- day.	Day and month A. D.
1	25	24	23	20	19)	17	14	13
D. R. o. (Re.)					Datasen Service	H. M. S.		
3898	264-0442	867-1634	260-9113	3 Tues.	15 Mar. (75)	22 59 29	0 Sat	19 Mar. (79)
3899	233-2211	714-4074	136-6341	0 Sat	4 Mar. (63)	5 11 38	2 Mon	20 Mar. (79)
3900	202-3979	561-6515	12-3570	4 Wed. ,	21 Feb. (52)	11 23 47	3 Tues	20 Mar. (79)
3901	253-6621	497-6449	47-0394	3 Tues	12 Mar. (71)	17 35 56	4 Wed	20 Mar. (79)
3902	222-8629	344-8890	9922-7623	0 Sat	19 Feb. (60)	23 48 5	5 Thur	19 Mar. (79)
3903	274-1733	280-8825	9957-4347	6 Fri	19 Mar. (78)	6 0 14	0 Sat	20 Mar. (79)
3904	243-3500	128-1265	3833-1675	3 Tues	8 Mar. (67)	12 12 23	1 Sun.	20 Mar. (79)
3905	215-2647	11-6622	47-5223	1 Sun	26 Feb. (57)	18 24 32	2 Mon	20 Mar. (79)
3906	266-5751	947-6557	82-2048	0 Sat	16 Mar. (76)	0 36 41	4 Wed	20 Mar. (80)
3907	238-4897	831-1914	296-5595	5 Thur	6 Mar. (65)	6 48 50	5 Thur	20 Mar. (79)
3908	207-6664	678-4354	172-2824	2 Mon	23 Feb. (54)	13 0 59	6 Fri	20 Mar. (79)
3909	258-9769	614-4289	206-9648	1 Sun	14 Mar. (73)	19 13 8	0 Sat	20 Mar. (79)
3910	228-1537	461-6730	82-6876	5 Thur	2 Mar. (62)	1 25 17	2 Mon	20 Mar. (80)
3911	197-3304	308-9171	9958-4105	2 Mon	19 Feb. (50)	7 37 26	3 Tues	20 Mar. (79)
3912	248-6408	244-9104	9993-0928	I Sun.	10 Mar. (69)	13 49 35	4 Wed	20 Mar. (79)
3913	217-8177	92-1545	9868-8157	5 Thur	27 Feb. (58)	20 1 44	5 Thur. +	20 Mar. (79)
3914	269-1281	28-1481	9903-4980	4 Wed	17 Mar. (77)	2 13 52	0 Sat	20 Mar. (80)
3915	251-0427	966-6837	117-8529	2 Mon	7 Mar. (66)	8 26 1	1 Sun	20 Mar. (79)
3916	210-2194	758-9278	9993-5758	6 Fri	24 Feb. (55)	14 38 10	2 Mon	20 Mar. (79)
3917	264-5299	694-9212	28-2581	5 Thur	15 Mar. (74)	20 50 19	3 Tues.	20 Mar. (79)
3918	230-7067	542-1653	9903-9810	2 Mon	3 Mar. (63)	3 2 28	5 Thur	20 Mar. (80)
3919	202-6212	425-7009	118-3358	0 Sat	21 Feb. (52)	9 14 37	6 Fri	20 Mar. (79)
3920	251-1938	325-4028	9814-3862	5 Thur	11 Mar. (70)	15 26 46	0 Sat	20 Mar. (79)
3921	223-1084	208-9389	28-7410	3 Tues	1 Mar. (60)	21 38 55	1 Sun	20 Mar. (79)
3922	274-3989	144-9321	63-4234	2 Mon	19 Mar. (79)	3 51 4	3 Tues	20 Mar. (80)

TABLE

				CONCUI	RRENT YE	AR,	WELL		1000
	crama.		year	arek	Harry .	JOVIAN SA	MVATSARA.		Intercalated (adhika) and suppressed
Kali.	Śaka.	Chaitradi Vikrama.	Meshidi solar in Bengal.	Kollam. A. D. Southern System. Northern system.		Southern Northern			(kshaya) true lunar months.
1	2	3	3a	4	5	6	7		84
3923	744	879	228		821-22	35 Plan			
3924	745	880	229		822-23	36 Subh	akrit .	, 3	5 Šrāvaņa .
3925	746	881	230		823-24	37 Śobh	апа -	1 11	
3926	747	882	231		*824-25	38 Kröd	ihin .	9 19	
3927	748	883	232	0-1	825-26	39 Viáv	Avasu .		3 Jyéshtha .
3928	749	884	233	1-2	826-27	to Pari	bhava		
3929	750	885	234	2-3	827-28	41 Play	anga .		1777
3930	751	886	235	3-4	*828-29	42 Kila	ks .		1 Chaitra
3931	752	887	236	4-5	829-30	43 Saui	mya .	4	
3932	753	888	237	5-6	830-31	44 Sādi	hirana		5 Śrāvaņa .
3933		889	238	6-7	831-32	45 Viro	dhakrit .	9	
3934	14/45	890	239	7-8	*832-33	46 Par	idhāvin .		1997
3935	Carles V	891	240	8-9	833-34	47 Pra	mādin .	*	. 4 Āshādha .
3936		892	241	III GOSA	834-35	48 Āna	nda .	120	
3937		893	242		835-36	49 Rāl	cshasa .		-
3935	44/23/31	894	243	11-12	*836-37	50 Ans	da	F 1	. 2 Vaisākhu .
3936	1	895	244	12-13	837-38	51 Pin	gala .	2 1	
3946		896	248	13-14	838-39	52 Kal	layukta .		. 6 Bhadoapada
391	-0.00	867	246	6 14-15	839-40	53 Sid	dharthin .		
394					*840-41	54 Ray	ndra .	*5 5	
394		1	COLOR	100000	841-42	55 Du	rmati ,	71	. 5 Śrāvaņa .
394	10.50	111110		A DAMEN	842-43	56 Du	ndubbi .		
394		1262	3 337	E LONGE	843-44	57 Ru	dhirödgärin		
394	E FOR	Tive in	2 22	-	+844-45	53 Ra	ktāksha .	8 9	. 3 Jyështaa .
394	est and		440		845-46	59 Kr	odhana .	•)	
-					1	-	-	-	

LXXXII-Contd.

		COM	MENCEMENT (OF THE						
	SOLAR YEAR	6	Luni-solar year (mean sundise of civil day on which Chaitra surla 1 ends),							
Day and month A. D.	Week- day.	Time of true Mësha-sam- kranti.	Day and month A. D.	Week-day.	a	b	e	Kali		
13	14	17	19	20	23	24	25	1		
	N. San	H. M. S.		District Co.		100 mm (4400)				
20 Mar. (79)	4 Wed	10 3 13	8 Mar. (67)	6 Fri.	9939-1463	992-1760	243-5956	3923		
20 Mar. (79)	5 Thur	16 15 22	26 Feb. (57)	4 Wed	153-5010	875-7118	215-5102	3924		
20 Mar. (79)	6 Fri	22 27 31	17 Mar. (76)	3 Tues	188-1834	811-7052	266-8206	3925		
20 Mar. (80)	1 Sun	4 39 40	5 Mar. (65)	0 Sat	63-9063	658-9493	235-9975	3926		
20 Mar. (79)	2 Mon	10 51 49	22 Feb. (53)	4 Wed	9939-6292	506-1933	205-1642	3927		
20 Mar. (79)	3 Tues	17 3 58	13 Mar. (72)	3 Tues.	9974-3115	442-1868	256-4846	3928		
20 Mar. (79)	4 Wed	23 16 7	2 Mar. (61)	0 Sat	9850-0344	289-4309	225-6614	3929		
20 Mar. (80)	6 Fri	5 28 16	20 Feb. (51)	5 Thur	64-6593	172-9666	197-5760	3930		
20 Mar. (79)	0 Sat. ,	11 40 25	10 Mar. (69)	4 Wed	98-8015	108-9590	248-8864	3931		
20 Mar. (79)	1 Sun	17 52 34	27 Feb. (58)	1 Sun.	9974-7944	956-2040	218-0632	3932		
21 Mar. (80)	3 Tues	0 4 43	18 Mar. (77)	0 Sat	9-4768	892-1976	269-3736	3933		
20 Mar. (80)	4 Wed.	6 16 52	7 Mar. (67)	5 Thur	223-8317	775-7333	241-2883	3934		
20 Mar. (79)	5 Thur	12 29 1	24 Feb. (55)	2 Mon. ,	99-5545	622-9773	210-4650	3935		
20 Mar. (79)	6 Fri	18 41 10	15 Mar. (74)	1 Sun.	134-2369	553-9708	261-7754	3936		
21 Mar. (80)	1 Sun.	0 53 19	4 Mar. (63)	5 Thur.	9-9598	406-2148	230-9522	8937		
20 Mar. (80)	2 Mon	7 5 28	21 Feb. (52)	2 Mon	9885-6826	253-4589	200-1290	3938		
20 Mar. (79)	3 Tues	13 17 37	11 Mar. (70)	1 Sun. ,	9920-3649	189-4523	252-4294	3939		
20 Mar. (79)	4 Wed	19 29 46	28 Feb. (59)	5 Thur	9796-0878	36-6964	220-6162	5940		
21 Mar. (80)	6 Fri	1 41 55	20 Mar. (79)	5 Thur	169-4022	8-9816	274-6644	3941		
20 Mar. (80)	0 Sat	7 54 4	8 Mar. (68)	2 Mon	45-1250	856-2255	243-8412	3942		
20 Mar. (79)	1 Sun	14 6 13	26 Feb. (57)	0 Sat.	259-4798	739-7613	215-7558	3943		
20 Mar. (79)	il Mon	20 18 22	17 Mar. (76)	6 Fri	294-1622	075-7547	267-0662	3944		
21 Mar. (80)	4 Wed	2 30 31	6 Mar. (65)	3 Tues	169-8851	522-9988	236-0990	3945		
20 Mar (80)	5 Thur	8 42 40	23 Feb. (54)	0 Sat	45-5979	370-2428	205-4197	3946		
20 Mar. (79)	6 Fri	14 54 49	12 Mar. (71)	5 Thur	9741-6583	269-9446	253-9924	3947		

TABLE

-					CONCU	RRENT YE	AR.	10(1		
K	Chaitradi Viknama. Mashadi solar year in Bengal.			Kollam.	A. D.	Southern	North	ern	Intercalated (adhika) and suppressed (kshaya) true lunar months.	
			Chaite	Möshñv in F			system.	system	m.	COVID-
U	1	2	3	3a	4	5	6	7		Sa
	3948	769	904	253	21-22	846-47	60 Ksha	aya .		
18	3949	770	905	254	22-23	847-48	1 Prab	hava .	27 12	I Chaitra
-	3950	771	906	255	23-24	*848-49	2 Vibb	ava .		· · · ·
2	3951	772	907	256	24-25	849-50	3 Śukl	A COLOR	. (8)	5 Śrāvaņa .
1	3952	773	908	257	25-26	850-51	4 Prar	nôđa +	(b) (b)	1885
25	3953	774	909	258	26-27	851-52	5 Praj	ăpati .	1 12	
	3954	775	910	259	27-28	*852-53	6 Ang	iras .	1 10	4 Āshāḍha
	3955	776	911	260	28-29	853-54	7 Śrin	aukha .		
	3956	777	912	261	29-30	854-55	8 Bhā	WA -		1 - 1444
	3957	778	913	262	30-31	855-56	9 Yuv	ran .		2 Vaišākha
	3958	779	914	263	31-32	*856-57	10 Dhii	itri .	×	2.26
	3959	780	915	264	32-33	857-58	11 Isva	. att	(8	6 Bhādrapada
	3960	781	916	265	33-34	858-59	12 Bah	udhānya	2	-
	3961	782	917	266	34-35	859-60	13 Pra	mādin .		m =
	3962	783	918	267	35-36	*860-61	14 Vik	rama .	W .	5 Śrāvaņa .
	3963	784	919	268	36-37	861-62	15 Vri	sha .	1.61 ×	ama
	3964	785	920	269	37-38	862-63	16 Chi	trabhānu	Part 4	****
	3965	786	921	270	38-39	863-64	17 Sul	ohānu .		3 Jyeshtha
	3966	787	922	271	39-40	*864-65	18 Ta	razpa .	10 3	
	3967	788	923	272	40-41	865-66	19 Par	rthiva .		7 Āivina 9 Mārgai : (ksh) }
	3968	789	924	278	41-42	866-67	20 Vy	aya .		1 Chaitraj
	3969	790	925	274	42-43	867-68	21 Sar	rvajit .	V 14	-
	3970	791	926	278	43-44	*868-69	22 Sat	rvadhärin	E - 1	5 Śrávaņa)
	3971	792	927	276	44-45	869-70	23 Vir	rodhin .	8 4	***
	3972	793	928	277	45-46	870-71	24 VB	crita .	40 (4	***

LXXXII-Contd.

				LUNI-SOLAR V	PAR (WEAR S	UNRISH OF	TIPITE BAY OF	witten					
	SOLAR YEAR	e gran		AAU NY SWIERLE L	LUNI-SOLAR YEAR (MEAN SUNBISH OF CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS).								
Day and month A.D.	Week-day.	Time of true Mesha-sam- kranti.			Week-day.	a	8	c	Kali				
13	14	ā	17	19	20	23	24	25)				
20 Mar. (79)	0 Set .	H.	M. S		3 Tues.	9956-0132	153-4804	226-0070	3948				
21 Mar. (80)	2 Mon.	3	19 7	Carried Many	0 Sat.	9832-2167	0.7839	195-0837	3949				
20 Mar. (80)	3 Tues	9	31 16		0 Sat.	205-0503	■ 973-0095	249-2319	3950				
20 Mar. (79)	4 Wed.	15	43 20	THE THE PARTY	4 Wed	80-7732	820-2535	218-4088	395				
20 Mar. (79)	5 Thur.	21	55 34	- Commence of the commence of	3 Tues	115-4556	756-2470	269-6192	3955				
21 Mar. (80)	0 Sat.	4	7 45	10-20-00-00-00-00-00-00-00-00-00-00-00-00	0 Sat.	9991-1784	: 603-4911	238-7960	3953				
20 Mar. (80)	1 Sun	10	19 51	A CONTRACTOR OF THE PARTY OF TH	4 Wed	9866-9013	450-7353	207-9727	395				
20 Mar. (79)	2 Mon	16	32 1		3 Tues	9900-5837	386-7286	259-2832	395				
20 Mar. (79)	3 Tues	22	49 10		0 Sat	9777-3065	233-9727	228-4600	395				
21 Mar. (80)	5 Thur	4	56 19	21 Feb. (52)	5 Thur.	9991-6613	117-5084	200-3745	395				
20 Mar. (80)	6 Fri	11	8 28	11 Mar. (71)	4 Wed	26-3437	53-5018	251 6849	395				
20 Mar. (79)	0 Sat.	17	20 37	1 Mar. (60)	2 Mon	240-4285	937-0375	223-5995	395				
20 Mar. (79)	1 Sun	23	32 43	20 Mar. (79)	1 Sun	275-3809	873-0310	274-9100	396				
21 Mar. (80)	3 Tues	5	44 54	9 Mar. (68)	5 Thur	151-1038	720-2751	244-0867	396				
20 Mar. (80)	4 Wed	11	57 1	26 Feb. (57)	2 Mon	26-8266	567-5191	213-2635	396				
20 Mar. (79)	5 Thur	18	9 1	16 Mar. (75)	I Sun	61-5090	503-5126	264-5739	396				
21 Mar. (80)	0 Sat	0	21 2	5 Mar. (64)	5 Thur.	9937-2318	350-7566	233-5708	396				
21 Mar. (80)	1 Sun.	6	33 36	22 Feb. (53)	2 Mon	9812-9547	198-0007	202-9275	396				
20 Mar. (80)	2 Mon	12	45 31	12 Mar. (72)	1 Sun.	9847-6371	132-9941	254-2379	396				
20 Mar. (79)	3 Tues	18	57 4	2 Mar. (61)	6 Fri	61-9919	17-5299	226-1525	396				
21 Mar. (80)	5 Thur	1	9 5	19 Feb. (50)	3 Tues.	9937-7149	884-7741	195-3293	396				
21 Mar. (80)	6 Fri.	7	22	11 Mar. (70)	3 Tues.	311-0291	837-0590	249:3775	396				
20 Mar. (80)	0 Sat.	13	34 1	28 Feb. (59)	0 Sat	186-7519	684-3031	218-5543	397				
20 Mar. (79)	1 Sun	19	46 2	18 Mar. (77)	6 Fri	221-4345	620-2365	269-8647	397				
21 Mar. (80)	3 Tues.	1	58 3	7 Mar. (66)	3 Tues	97-1572	467-5406	239-0416	397				

TABLE

				CONO	JRRENT	YEA	R.			
Kali.	Saka.	Chaitrādi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A. D.		Jovian S. Southern system.	Northe system	Control of the contro	Intercalated (adhika) and suppressed (Kshaya) true lunar months
- 17		177	17.7			-		7		8ø
1	2	3	3a	4	5		6			00
3973	794	929	278	46-47	871-72		25 Kh	ara .		4 Āshādha .
200000000	140000	930	279	47-48	*872-73		3321	ndana .	. 60	7000
3974	795	1000	280	510401	873-74		27 Vij			AL CHIEF IN
3975	796	931	281	48-49	874-75		28 Jay			2 Vaišākha
3976	797	932	282	50-51	875-76			nmatha		
3977	798		283	51-52	*876-77		100,000	rmukha		6 Bhādrapada
3978	799	934	284	52-53	877-78		100000	imalamba		
3979	800	936	285	53-54	878-79			lamba .		6 5
3980	801	936	286	54-55	879-80		33 Vi			5 Śrāvaņa .
3981	No.	938	287	55-56	*880-81			rvarin .		
3982	803	939	288	56-57	881-82		35 Pl			
3983	804	940	289	57-58	882-83			bhakrit .	2 6	3 Jyështha .
3984	805	941	290	58-59	583-84			bhana .		
3985		942	291	59-60	*884-85			rodhin .		7 Āśvina
3986	807	943	291	60-61	885-86		-	iávävasu		10 Pausha (ksh.) 1 Chaitra
3987	808	1000	293	61-62	886-87			arābhava		
3988	800	944	294	62-63	887-88			lavanga .		5 Śrāvaņa .
3989	810	945	294	63-64	*888-89			Ilaka .		
3990		946	10000	CONTRACTOR OF	889-90			aumya .	E 10	
3991					890-91		4 1 200	ädhäraņa	-	THE CHARLES
3992			-	III - COLOR	891-92			irödhakrit		2.0
3993					*892-93			aridhāvin		
3994		1	- 00	- 1100000	893-94			ramādin .		2 Vaišākha
3995	110000	6101		and the second	894-95			nanda .	2. 15	
3996					50.70 Sept.			äkshasa .		6 Phideanada
3997	818	953	302	70-71	895-96		49 R	oxsnasa .		6 Bhādrapada

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		COMM	ENCEMENT O	FTHE						
Solai	R YEAR.	. News	LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITER SUKLA 1 ENDS).							
Day and month A. D.	Week- day.	Time of true Mësha-sam- kranti.	Day and month A. D.	Week- day.	a	ь	c	Kali		
13	14	17	19 /	20	23	24	25	1		
21 Mar. (80)	4 Wed.	H. M. S. 8 10 42	24 Feb. (55)	0 Sat	9972-8801	313-7846	208-2183	3973		
20 Mar. (80)	5 Thur	14 22 51	14 Mar. (74)	6 Fri	7-5624	250-7781	259-5087	3974		
20 Mar. (79)	6 Fri	20 35 0	3 Mar. (62)	3 Tues.	9883-2853	98-0222	228-7055	3975		
21 Mar. (80)	1 Sun	2 47 9	21 Feb. (52)	1 Sun	97-6401	981-5579	200-6101	3976		
21 Mar. (80)	2 Mon	8 59 18	12 Mar. (71)	0 Sat	132-3224	917-5514	251-9305	3977		
20 Mar. (80)	3 Tues	15 11 27	29 Feb. (60)	4 Wed	8-0453	764-7954	221-1072	3978		
20 Mar. (79)	4 Wed	21 23 36	19 Mar. (78)	3 Tues	42-7277	700-7889	272-4177	3979		
21 Mar. (80)	6 Fri	3 35 45	8 Mar. (67)	0 Sat	9918-4506	548-0330	241-5146	3980		
21 Mar. (80)	0 Sat	9 47 54	26 Feb. (57)	5 Thur	132-8053	431-5686	213-5091	3981		
20 Mar. (80)	1 Sun	16 0 3	15 Mar. (75)	3 Tues	9828-8558	331-2705	262-0817	3982		
20 Mar. (79)	2 Mon	22 12 12	5 Mar. (64)	1 Sun	43-2106	214-8061	234-0013	3983		
21 Mar. (80)	4 Wed	4 24 21	22 Feb. (53)	5 Thur	9918-9335	62-0502	203-1731	3984		
21 Mar. (80)	5 Thur	10 36 30	13 Mar. (72)	4 Wed	9953-6158	998-0436	254-4835	3985		
20 Mar. (80)	6 Fri	16 48 39	2 Mar. (62)	2 Mon	167-9707	881-5794	226-3980	3986		
20 Mar. (79)	0 Sat	23 0 48	19 Feb. (50)	6 Fri	43-6936	728-9235	195-5748	3987		
21 Mar. (80)	2 Mon	5 12 57	10 Mar. (69)	5 Thur	78-3759	664-8169	246-7165	3988		
21 Mar. (80)	3 Tues.	11 25 6	27 Feb. (58)	2 Mon	9954:0987	512-0610	216-0621	3989		
20 Mar. (80)	4 Wed	17 37 15	17 Mar. (77)	I Sun	9988-7811	448:0544	267-3724	3990		
20 Mar. (79)	5 Thur	23 49 24	6 Mar. (65)	5 Thur	9864-5040	294-2984	236-5493	3991		
21 Mar. (80)	0 Sat	6 1 33	23 Feb. (54)	2 Mon	9740-2268	142-5426	205-7261	3992		
21 Mar. (80)	1 Sun	12 13 42	14 Mar. (73)	1 Sun	9774-9092	78-5360	257-0365	3993		
20 Mar. (80)	2 Mon	18 25 51	3 Mar. (63)	6 Fri	9989-2641	962-0717	228-9510	3994		
21 Mar. (80)	& Wed	0 38 0	21 Feb. (52)	4 Wed	203-6198	845-6075	200-6968	3995		
21 Mar. (80)	5 Thur	6 50 9	12 Mar. (71)	3 Tues.	238-3012	781-6009	252-0073	3996		
21 Mar. (80)	6 Fri	31 2 18	I Mar. (60)	0 Sat	114-0241	628-8149	221-3528	3997		

TABLE

				CONCU	RRENT YI	EAR.		
A		rama.	year	Year	11.0	Jovian Sax	IVATSABA.	Intercalated (adhika) and suppressed
Kali.	Saka.	Chaltradi Vikrama.	Mëshëdi solar in Bengal.	Kollam.	A. D.	Southern system.	Northern system.	(kshaya) true lunar months.
1	2	3	3a	4	5	6	7	84
3998	819	954	303	71-72	*896-97	50 Anala		Tere
3999	L Lacone	955	304	72-73	897-98	51 Pinga	la	
4000		956	305	73-74	898-99	52 Kālay	rukta	4 Āshādha
4001	822	957	306	74-75	899-900	53 Siddh	ārthin .	- 111
4002	1000	958	307	75-76	*900-01	54 Raud	ra	2444
4003		959	308	76-77	901-02	55 Durm	ati	3 Jyështha .
4004	2691	960	309	77-78	902-03	56 Dund	nbhi	
4005		961	310	78-79	903-04	57 Rudh	irödgārin	7 Āśvina .
4000		962	311	79-80	*904-05	58 Rakt	āksha†	***
4007		963	312	80-81	905-06	59 Krödhana .	60 Kshaya	400
4008	3.00	964	313	81-82	906-07	60 Kshaya .	1 Prabhava .	5 Srāvaņa .
400	1 100	965	314	82-83	907-08	1 Prabhava	2 Vibhara .	- 44
4016	1100	966	315	83-84	*908-09	2 Vibhava .	3 Śukla	100
401	-	967	316	1000	909-10	3 Šukla	4 Pramôda .	3 Jyështha .
401	21 24/019	968	317	85-86	910-11	4 Pramôda .	5 Prajāpati .	
401		969	318	86-87	911-12	5 Prajāpati .	6 Angiras .	4,
401		970	319	87-88	*912-13	6 Angiras .	7 Śrimukha .	2 Vaišākha .
401	Since	971	320	88-89	913-14	7 Śrimukha .	8 Bhava	The same of
401		972	321	89-90	914-15	8 Bháva	9 Yuvan	6 Bhādrapada
401	1000	973	1 1 1 1 1 1 1		915-16	9 Yuvan	10 Dhātri	
401	ar Cares				*916-17	10 Dhātri	11 Iávara	***
401	en neze		1000	TO THE REAL PROPERTY.	917-18	11 Isvara	12 Bahudhanya .	4 Āsbādha .
402		976	1000	H ISSET	918-19	12 Bahudhānya .	13 Pramādin .	
409		1100	1	- TENOR	919-20	13 Pramādin .	14 Vikrama .	1 2 1 1 1
402		100	W 25	and a second	*920-21	14 Vikrama .	15 Vrisha	3 Jyčshtha

^{+ 59} Krödhana was suppressed in the North. By Southern reckoning there was no suppression nor has there been any such since.

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		COM	MENCEMENT	OF THE				
NO DESCRIPTION OF THE PERSON O	SOLAB YEAR	Bi Liotana	LUNI-SOLAB		n sunbise o la surla 1 e	P CIVIL DAY	ON WHICH	
Day and month, A. D.	Week- day.	Time of true Mësha-sam- kranti.	Day and month, A. D.	Week-day.	a	6	c	Kal
13	14	17	19	20	23	24	25	1
20 Mar. (80)	0 Sat.	H. M. S. 19 14 27	19 Mar. (79)	6 Fri.	148-7064	564-8384	0=0 #290	200
	A STATE OF					100000000000000000000000000000000000000	272-6632	399
21 Mar. (80)	2 Mon	1 26 36	8 Mar. (67)	3 Tues	24-4293	412-0825	241-8401	399
21 Mar. (80)	3 Tues	7 38 45	25 Feb. (56)	0 Sat	9900-1522	259-3266	211-0169	400
21 Mar. (80)	4 Wed	13 50 54	16 Mar. (75)	6 Fri	9934-8345	195-3200	262-3050	400
20 Mar. (80)	5 Thur	20 3 3	4 Mar. (64)	3 Tues	9810-5573	42-5640	231-4818	400
21 Mar. (80)	0 Sat	2 15 12	22 Feb. (53)	1 Sun	24-9122	926-0997	203-3963	4003
21 Mar. (80)	1 Sun	8 27 21	13 Mar. (72)	0 Sat.	59-5945	862-0930	254-7067	400
11 Mar. (80)	2 Mon	14 29 29	3 Mar. (62)	5 Thur	273-9494	745-6289	226-6213	400
0 Mar. (80)	3 Tues	20 51 38	20 Mar. (80)	3 Tues	9969-9998	645-3307	275-1940	4000
1 Mar. (80)	5 Thur	3 3 47	10 Mar. (69)	1 Sun	184-3546	528-8665	247-1085	4007
1 Mar. (80)	6 Fri.	9 15 56	27 Feb. (58)	5 Thur	60-0774	376-1105	216-2853	4008
I Mar. (80)	0 Sat	15 28 5	17 Mar. (76)	3 Tues	9756-1279	275-8123	264-8579	4009
0 Mar. (80)	1 Sun	21 40 14	6 Mar. (66)	1 Sun	9970-4827	159-3479	236-7726	4010
1 Mar. (80)	3 Tues	3 52 23	23 Feb. (54)	5 Thur	9846-2055	6-5921	205-9493	4011
1 Mar. (80)	4 Wed .	10 4 32	14 Mar. (73)	4 Wed	9880-8879	942-5855	257-2597	4012
1 Mar. (80)	5 Thur	16 16 41	4 Mar. (63)	2 Mon	95-2428	826-1212	229-1743	4013
0 Mar. (80)	6 Fri	22 28 50	22 Feb. (53)	0 Sat	309-5975	709-6569	201-0889	4014
1 Mar. (80)	1 Sun	4 40 59	11 Mar. (70)	5 Thur	5-6479	609-3587	249-6615	4015
1 Mar. (80)	2 Mon. ,	10 53 8	28 Feb. (59)	2 Mon.	9881-3708	456-6028	218-8383	4016
1 Mar. (80)	3 Tues	17 5 17	19 Mar. (78)	1 Sun	9916-0531	392-5962	270-1487	4017
0 Mar. (80)	4 Wed	23 17 26	7 Mar. (67)	5 Thur.	9791-7760	233-8403	239-3256	4018
1 Mar. (80)	6 Fri	5 29 35	25 Feb. (56)	3 Tues	6-1309	123-3760	211-2401	4019
1 Mar. (80)	0 Sat	11 41 44	16 Mar. (75)	2 Mon	40-8133	59-3695	262-5505	4020
I Mar. (80)	1 Sun	17 53 53	5 Mar. (64)	6 Fri	9916-5360	906-6135	231-6273	4021
Mar. (31)	3 Tues	0 6 2	23 Feb. (54)	4 Wed	130-8909	790-1493	203-6419	4022

TABLE

				CONCU	RRENT Y	EAR.		
	-	стата.	r year			JOVIAN SAN	IVATSARA.	Intercalated (adhika) and suppressed (kshaya) true
Kali.	Šaka.	Chaitradi Vikrama.	Mēshādi solar in Bengal.	Kollam.	A, D.	Southern system.	Northern system.	lunar months.
1	2	3	3a	4	5	6	7	8a
4023	844	979	328	96-97	921-22	15 Vrisha	16 Chitrabhanu .	H-1-
4024	845	980	329	97-98	922-23	16 Chitrabhānu .	17 Subhānu .	7 Aśvina -
4025	846	981	330	98-99	923-24	17 Subhānu .	18 Tāraņa .	244
4026	847	982	331	99-100	+924-25	18 Tāraņa - ·	19 Pārthiva .	Token The Control of the Control of
4027	848	983	332	100-01	925-26	19 Parthiva .	20 Vyaya	5 Śrāvaņa .
4028	849	984	333	101-02	926-27	20 Vyaya · ·	21 Sarvajit .	120
4029	850	985	334	102-03	927-28	21 Sarvajit .	22 Sarvadhārin .	
4030	851	986	335	103-04	*928-29	22 Sarvadhārin .	23 Virödhin .	3 Jyështha
2500	852	987	336	X Constant	929-30	23 Virödhin .	24 Vikrita .	in it
4031	853	988	337	C DESTRUCTO	930-31	24 Vikrita	25 Khara	
4032	1	989	338	N TOWNSON	931-32	25 Khara	26 Nandana .	2 Vaišākha
4033	FRUE	990	339	The second second	•932-33	26 Nandana .	27 Vijaya	
4034			340	: DEALERS	933-34	27 Vijaya	28 Jaya	6 Bhādrapada
4035	111111111111111111111111111111111111111	991	760	1 000000	934-35	28 Jaya	29 Manmatha .	
4036		992	20	33, 11	935-36	22722	30 Durmukha .	100
4037	100000	993	2.50	The same of	*936-37	A STATE OF THE STA	31 Hēmalamba .	4 Āshāḍha
4038	1 69	994		CAST HAVE CONTROL	937-38	Contractor Contractor	32 Vilamba	
4039	(0.50)				938-39		33 Vikārin	
401	1000	996		E SCILISIS	1 1 1 1 1 1 1 1	the owner or	. 34 Śārvarin	3 Jyeshtha
404				and the second		TO SECURE TO SECURE	W. W. 1994	***
404	-	STATE OF THE PARTY OF	1	E PERSON	HENOUN			7 Asvina
404	200		1 00	SERVICE PROGRAMMENT	200000			
404	30	F 1500	OTTE RESIDEN	19 117-18		A		
404	C - wash		Section 1 section	50 118-19		The state of	CONTRACTOR OF	. 5 Śrāvaņa
404	6 867			51 119-20		The Value of	40 70 711	
404	868	100	3 3	52 120-21	945-4	O SO VANVANIA	. 40 Parabhava	-

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	SOLAR YEAR		LUNI-SOLAR	YEAR (MEAN	N SUNBISE OF	CIVIL DAY	N WHICH	
	Journ Taxo		У		a śukla 1 er			
Day and month, A. D.	Week-day.	Time of true Mësha-sarh- kranti.	Day and month, A. D.	Week-day.	a	b	e	Kali
13	14	17	19	20	23	24	25	1
21 Mar. (80)	4 Wed	H. M. S. 6 18 11	13 Mar. (72)	3 Tues.	165-5733	726-1427	254-9523	402
21 Mar. (80)	5 Thur	12 30 20	2 Mar. (61)	0 Sat.	41-2961	573-3868	224-1290	402
21 Mar. (80)	6 Fri.	18 42 29	21 Mar. (80)	6 Fri.	75-9785	509-3802	275-4395	402
21 Mar. (81)	1 Sun	0 54 38	9 Mar. (69)	3 Tues.	9951-7014	356-6243	244-6163	402
21 Mar. (80)	2 Mon	7 6 47	26 Feb. (57)	0 Sat.	9827-4242	203-8683	213-7931	402
21 Mar. (80)	3 Tues	13 18 56	17 Mar. (78)	6 Fri	9862-0966	139-8618	265-1034	402
21 Mar. (80)	4 Wed.	19 31 5	7 Mar. (66)	4 Wed.	76-4614	23-3975	237-0181	402
21 Mar. (81)	6 Fri	1 43 14	24 Feb. (55)	1 Sun.	9952-1843	870-6416	206-1949	403
21 Mar. (80)	0 Sat.	7 55 23	14 Mar (73)	0 Sat	9986-8666	806-6351	257-5053	403
21 Mar. (80)	1 Sun	14 7 32	4 Mar. (63)	5 Thur	201-2215	690-1707	229-4198	403
21 Mar. (80)	2 Mon. ,	20 19 41	21 Feb. (52)	2 Mon	76-9443	537-4148	198-5966	403
21 Mar. (81)	4 Wed	2 31 50	11 Mar. (71)	1 Sun	111-6267	473-4083	249-9071	403
21 Mar. (80)	5 Thur	8 43 59	28 Feb. (59)	5 Thur	9987-3495	320-6523	219-0839	403
1 Mar. (80)	6 Fri	14 56 8	19 Mar. (78)	4 Wed	22-0319	256-6458	270-3942	403
21 Mar. (80)	0 Sat	21 8 17	8 Mar. (67)	1 Sun	9897-7548	103-8898	239-5711	403
21 Mar. (81)	2 Mon	3 20 26	26 Feb. (57)	6 Fri	112-1097	987-4256	211-4857	403
21 Mar. (80)	3 Tues	9 32 35	16 Mar. (75)	5 Thur	146-7920	923-4190	262-7961	403
1 Mar. (80)	4 Wed	15 44 44	5 Mar. (64)	2 Mon. ,	22-5148	770-6630	231-9729	404
21 Mar. (80)	5 Thur	21 56 53	23 Feb. (54)	0 Sat	236-8697	654-1988	203-8874	404
1 Mar. (81)	0 Sat.	4 9 2	12 Mar. (72)	5 Thur	9932-9200	553-9006	252-4601	404
1 Mar. (80)	1 Sun.	10 21 11	1 Mar. (60)	2 Mon. ,	9808-6429	401-1447	221-6368	404
1 Mar. (80)	2 Mon	16 33 20	20 Mar. (79)	1 Sun.	9843-3253	337-1381	272-9473	404
1 Mar. (80)	3 Tues	22 45 29	9 Mar. (68)	5 Thur	9719-0482	184-3821	242-1240	104
1 Mar. (81)	5 Thur	4 57 38	27 Feb. (58)	3 Tues	9933-4029	67:9178	214-0386	401

		EAR,	RRENT Y	CONCU				
Intercalated (udhika) and suppressed (kshaya) true lunar months,	Northern system.	Jovian Sanv Southern system.	A. D.	Kollam.	Měshādi solar year in Bengal.	Chaitradi Vikrama.	Saka.	Kali.
8a	7	6	5	4	3a	3	2	1
3 Jyështha .	41 Plavanga . 42 Kilaka	40 Parābhava . 41 Piavanga .	946-47 947-48	121-22 122-23	353 354	1004	869 870	4048
1 Table 14	43 Saumya .	42 Kilaks	*948-49	123-24	355	1006	871	4050
12	44 Sådhärana .	43 Saumya .	949-50	124-25	356	1007	872	4051
1 Chaitra .	45 Virodhakrit .	44 Sādhāraņa .	950-51	125-26	357	1008	873	4052
	46 Paridhāvin .	45 Virodhakrit	951-52	126-27	358	1009	874	4053
5 Ŝtāvaņa .	47 Pramadin .	46 Paridhāvin .	*952-53	127-28	359	1010	875	4054
	48 Ananda .	47 Pramādin .	953-54	128-29	360	1011	876	4055
	49 Rākshasa .	48 Ananda .	954-55	129-30	361	1012	877	4056
4 Åshādha .	50 Anala	49 Rākshasa .	955-56	130-31	362	1013	878	4057
***	51 Pingala .	50 Anala	*956-57	131-32	363	1014	879	4058
	52 Kālayukta .	51 Pingala .	957-58	132-33	364	1015	880	4059
3 Jyeshtha .	53 Siddharthin .	52 Kālayukta .	958-59	133-34	365	1016	881	4060
7 Aśvina	54 Raudra	53 Siddhārthin .	959-60	134-35	366	1017	882	4061
	(BECAUTO CASE)	54 Raudra	*960-61 961-62	135-36	367	1019	884	4063
	56 Dundubhi . 57 Rudhirödgarin	55 Durmati . 56 Dundubhi .	962-63	136-37	368	1019	885	4064
4 Āshādha	40 TO 1 411 1	57 Rudhirödgårin	962-63	138-39	370	1020	886	4065
	#0 1F-2-11	58 Raktāksha .	*964-65	139-40	371	1022	887	4066
***	60 Kshaya	59 Krôdhana	965-66	140-41	372	1023	888	4067
3 Jydeith	1 Prabhava	60 Kshaya .	966-67	141-42	373	1024	889	4058
S bycentur	2 Vibbaya	1 Prabhava	967-68	142-43	374	1025	890	4069
12 Phäiguna .	3 Śukla	2 Vibhava .	*968-69	143-44	375	1026	891	4070
***	4 Pramôda	3 Śukla	969-70	144-45	376	1017	892	4071
	5 Prajāpati .	4 Pramóda .	970-71	145-46	377	1028	893	4072

LXXXII-Contd.

	SOLAR YE.	AR.	LUNI-SOLAR	YEAR (MEA CHAITE	N SUNRISE O	P CIVIL DAY ENDS).	ON WHICH	
Day and nonth, A; D	Week- day.	Time of true Mësha-sam- kranti.	Day and month, A. D.	Week-day.	a	ь	0	Kal
13	14	17	19	20	23	24	25	1
		H. M. S.						
1 Mar. (80)	0 Sat	17 21 56	7 Mar. (66)	0 Sat.	182-4402	887-4470	237-2637	404
1 Mar. (80)	1 Sun	23 34 5	24 Feb. (55)	4 Wed	58-1630	734-6910	206-4404	404
1 Mar. (81)	3 Tues	5 46 13	14 Mar. (74)	3 Tues	92-8454	670-6846	257-7508	405
1 Mar. (80)	4 Wed	11 58 22	3 Mar. (62)	0 Sat	9968-5683	517-9286	226-9276	405
I Mar. (80)	5 Thur	18 10 31	20 Feb. (51)	4 Wed	9844-3112	365-1727	196-1044	405
2 Mar. (81)	0 Sat	0 22 40	11 Mar. (70)	3 Tues	9878-9735	301-1662	247-4148	408
1 Mar. (81)	1 Sun	6 34 49	28 Feb. (59)	0 Sat	9754-6963	148-4102	216-5916	403
1 Mar. (80)	2 Mon	12 46 58	18 Mar. (77)	6 Fri	9789-3787	84-4037	267-9020	405
1 Mar. (80)	3 Tues	18 59 7	8 Mar. (67)	4 Wed	3-7335	967-9394	239-8167	405
2 Mar. (81)	5 Thur	1 11 16	26 Feb. (57)	2 Mon	218-0884	851-4750	211-7312	405
1 Mar. (81)	6 Fri	7 23 25	16 Mar. (76)	1 Sun	252-7708	787-4685	263-0416	4058
1 Mar. (80)	0 Sat	13 35 34	5 Mar. (64)	5 Thur	128-4936	634-7125	232-2184	4055
1 Mar. (80)	1 Sun	19 47 43	22 Feb. (53)	2 Mon	4-2164	481-9566	201-3952	4060
2 Mar. (81)	3 Tues	1 59 52	13 Mar. (72)	I Sun	38-8988	417-9502	252-7056	4061
I Mar. (81)	4 Wed	8 12 1	1 Mar. (61)	5 Thur	9914-6217	265-1942	221-8823	4065
I Mar. (80)	5 Thur	14 24 10	20 Mar. (79)	4 Wed	9949-3040	201-1877	273-1828	4063
Mar. (80)	6 Fzi	20 36 19	9 Mar. (68)	1 Sun	9825-0269	48-5316	242-3696	4064
2 Mar. (81)	1 Sun	2 48 28	27 Feb. (58)	6 Fri	39-3817	931-9674	214-2842	4065
Mar. (81)	2 Mon	9 0 37	17 Mar. (77)	5 Thur	74-0642	867-9608	265-5946	4066
Mar. (80)	3 Tues	15 12 46	7 Mar. (66)	3 Tues	288-4189	751-4956	237-5093	4067
Mar. (80)	4 Wed	21 24 55	24 Feb. (55)	0 Sat	164-1418	598-7406	206-6860	4068
Mar. (81)	6 Fri	3 37 4	15 Mar. (74)	6 Fri	198-8042	534-7341	257-9964	4069
Mar. (81)	0 Sat	9 49 13	3 Mar. (63)	3 Tues	74-5470	381-9782	227-1731	4070
Mar. (80)	1 Sun.	16 1 22	21 Mar. (80)	I Sun	9770-5974	281-6799	275-7458	4071

Kali, 8	aka.	7ikrama,	year	CONCU	RRENT Y	EAR.	1/4											
Kali, S	aka.	/ikrama,	year	UI Jerre I	JOVIAN SAMVATSARA.													
Kali, S	aka.	Chaitradi Vikrama,		C.C.	690000	JOVIAN SAN	(VATSABA:	Intercalated (adhika) and suppressed										
			Meshādi solar in Bengal.	Kollam.	A. D.	Southern system.	Northern system.	(kehaya) true lunar months.										
1	2	3	3a	4	5	6	7	8a										
4073	894	1029	378	146-47	971-72	5 Prajāpati .	6 Angiras .	5 Srāvaņa .										
4074	39	1030	379	147-48	*972-73	6 Angiraa .	7 Śrimukha .	202										
4075	ALC: U	1031	380	148-49	973-74	7 Śrimukha .	8 Bhāva	11544017175										
4076	400	1032	381	149-50	974-75	8 Bhāva	9 Yuvan	4 Āshāḍha .										
4077	38.00	1033	382	150-51	975-76	9 Yuvan	10 Dhātri											
4078	7.5 5	1034	383	151-52	*976-77	10 Dhātri	11 Isvara											
4079	900	1035	384	152-53	977-78	11 Iávara	12 Bahudhānya .	2 Vaisākha .										
4080	901	1036	385	153-54	978-79	12 Bahudhānys .	13 Pramäthin .	I I I I I I I I I I I I I I I I I I I										
4081	902	1037	386	154-55	979-80	13 Pramathin .	14 Vikrama .	6 Bhādrapada										
4082	903	1038	387	155-56	*980-81	14 Vikrama .	15 Vrisha	7,600										
4083	901	1039	388	156-57	981-82	15 Vrisha .	16 Chitrabhānu .	The second of										
4084	905	1040	389	157-58	982-83	16 Chitrabhānu .	17 Subhānu .	4 Āshāḍha .										
4085	906	1041	390	158-59	983-84	17 Subhānu -	18 Târaņa	Late 19										
4086	907	1042	391	159-60	*984-85	18 Tāraņa	19 Parthiva .	Above 1										
4087	908	1043	392	160-61	985-86	19 Pārthiva -	20 Vyaya	3 Jyeshtha .										
4088	909	1044	393	161-62	986-87	20 Vyaya	21 Sarvajit .	11 1000										
4089	910	1045	394	162-63	987-88	21 Sarvajit .	22 Sarvadhārin .	200 10 11										
4090	911	1046	395	163-64	*988-89	22 Sarvadhārin .	23 Virodhin .	1 Chaitra .										
4091	912	1047	396	164-65	989-90	23 Virôdhin .	24 Vikrita† .											
4092	913	1048	397	165-66	990-91	24 Vikrita	26 Nandana .	5 Śrāvaņa .										
4093	914	1049	398	166-67	991-92	25 Khara .	27 Vijaya	(m)										
4094	915	1050	399	167-68	*992-93	26 Nandana .	28 Jaya	TOM VALUE										
4095	916	1051	400	168-69	993-94	The second second	29 Manmatha .	4 Ashādha .										
4096	917	1052	401	169-70	994-95	Maria de la companya della companya	30 Durmukha .	7000										
4097	018	1053	402	170-71	995-96	29 Manmatha .	31 Hēmalamba .	102***										

† 25 Khara was suppressed in the north.

LXXXII-Contd.

		COM	MENCEMENT	OF THE	Inena			
	SOLAR YEAR	e e entre	LUNI-SOLAR		SUNBISE OF SUKLA 1 EN		N WHICH	
Day and month, A. D.	Week- day.	Time of true Měsha-sam- kränti.	Day and month, A. D.	Week-day.	a	b .	c	Kali.
13	14	17	19	20	23	24	25	1
22 Mar. (81)	4 Wed	H. M. S. 4 25 40	28 Feb. (50)	3 Tues	9860-6751	12-4597	217-8372	4073
21 Mar. (81)	5 Thur	10 37 49	18 Mar. (78)	2 Mon	9895-3574 109-7123	948-4532 831-9889	268-0475 240-0622	4074
21 Mar. (80) 21 Mar. (80)	6 Fri.	16 49 58 23 2 7	8 Mar. (67) 25 Feb. (56)	4 Wed	9985-4352	679-2329	209-2390	4076
22 Mar. (81)	2 Mon.	5 14 16	16 Mar. (75)	3 Tues.	20:1175	615-2264	260-5494	4077
21 Mar. (81)	3 Tues	11 26 25	4 Mar. (64)	0 Sat	9895-8404	462-4704	229-7261	4078
21 Mar. (80)	4 Wed	17 38 34	21 Feb. (52)	4 Wed	9771-5632	309-7145	198-9029	4079
21 Mar. (80)	5 Thur	23 50 43	12 Mar. (71)	3 Tues	9806-2456	245-7080	250-2134	4080
22 Mar. (81)	0 Sat	6 2 52	2 Mar. (61)	I Sun	20-6004	129-2437	222-1279	4081
21 Mar. (81)	1 Sun.	12 15 1	20 Mar. (80)	0 Sat.	55-2828	65-2372	273-4383	4082
21 Mar. (80)	2 Mon	18 27 10	9 Mar. (68)	4 Wed	9931-0057	912-4811	242-6151	4083
22 Mar. (81)	4 Wed	0 39 19	27 Feb. (58)	2 Mon	145-3605	796-0169	214-5298	4084
22 Mar. (81)	5 Thur	6 51 28	18 Mar. (77)	1 Sun. •	180-0429	732-0103	265-8401	4085
21 Mar. (81)	6 Fri	13 3 37	6 Mar. (66)	5 Thur. •	55-7657	579-2544	235-0169	4086
21 Mar. (80)	0 Sat	19 15 46	23 Feb. (54)	2 Mon. ·	9931-4886	426-4985	204-1937	4087
22 Mar. (81)	2 Mon	1 27 55	11 Mar. (73)	1 Sun.	9966-1709	362-4919	255-5042	4088
22 Mar. (81)	3 Tues	7 40 4	3 Mar. (62)	5 Thur	9841-8938	209-7360	224-6809	4089
21 Mar. (81)	4 Wed	13 52 13	21 Feb. (52)	3 Tues.	56-2487	93-2717	196-5954	4090
21 Mar. (80)	5 Thur	20 4 22	11 Mar. (70)	2 Mon. +	90-8310	29-2651	247-9059	4091
22 Mar. (81)	0 Sat	2 16 31	28 Feb. (59)	6 Fri	9966-6538	876-5093	217-0828	4092
22 Mar. (81)	1 Sun	8 28 40	19 Mar. (78)	5 Thur.	1.3372	812-5027	268-3931	4093
21 Mar. (81)	2 Mon.	1 Carl 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 Mar. (68)	3 Tues.	215-6911	696-0384	240-3077	4094
21 Mar. (80)	3 Tues	20 52 58	25 Feb. (56)	0 Sat.	91-4139	543-2825	209-4845	4095
22 Mar. (81)	5 Thur.	- 87 - 87 - 30 -	16 Mar. (75)	6 Fri.	126-0953	479-2759	260-7950	4096
22 Mar. (81)	6 Fri.	9 17 15	5 Mar. (64)	3 Trues	1-8192	326-5199	229-9717	4097

				CONC	URRENT	YEAR.	W/ Se	
	200	/ilcrama.	lar year L	212		JOVIAN SA	ńvatsaba,	Intercalated (adhika) and suppressed (kshaya) true
Kali.	Saka.	Chaitradi Vikrama.	Mëshādi solar in Bengal.	Kollam.	A. D.	Southern system.	Northern system,	lunar months.
1	2	3	3a	4	5	6	7	8a
4098	919	1054	403	171-72	*996-97	30 Durmukha .	32 Vilamba .	2 Valšākha
4099	920	1055	404	172-73	997-98	31 Hēmalamba .	33 Vikārin .	
4100	921	1056	405	173-74	998-99	32 Vilamba .	34 Śārvarin	6 Bhādrapada
4101	922	1057	406	174-75	999-1000	33 Vikārin	35 Plava	200
4102	923	1058	407	175-76	*1000-01	34 Śārvarin .	36 Subhakrit .	
4103	924	1059	408	176-77	1001-02	35 Plava	37 Sõbhana .	5 Śrāvana .
4104	925	1060	409	177-78	1002-03	36 Šubhakrit .	38 Krödhin .	
4105	926	1061	410	178-79	1003-04	37 Śōbhana	39 Višvāvasu .	Degrada in
4106	927	1062	411	179-80	*1004-05	38 Krödhin	40 Parabhava .	3 Jyështha .
4107	928	1063	412	180-81	1005-06	39 Viávāvasu .	41 Plavanga	TO THE RESERVE OF
4108	929	1064	413	181-82	1006-07	40 Parābhava	42 Kilaka .	8 Kärttika
4109	930	1065	414	182-83	1007-08	41 Plavanga .	43 Saumya	9 Mårgas: (ksh.) 1 Chaitra
4110	931	1066	415	183-84	*1008-09	42 Kilaka	44 Sādhāraņa .	349
4111	932	1067	416	184-85	1009-10	43 Saumya .	45 Virôdhakrit .	5 Śrávaņa
4112	933	1068	417	185-86	1010-11	44 Sādhāraņa .	46 Paridhāvin .	
4113	934	1009	418	186-87	1011-12	45 Virödhakrit .	47 Pramādin	The same
4114	935	1070	419	187-88	*1012-13	46 Paridhāvin .	48 Ananda .	4 Āshādha
4115	936	1071	420	188-89	1013-14	47 Pramādin .	49 Rākshasa	
4116	937	1072	421	189-90	1014-15	48 Ānanda .	50 Anala	***
4117	938	1073	422	190-91	1015-16	49 Rākshasa .	51 Pingala	2 Vaišākha
4118	939	1074	423	191-98	*1016-17	50 Anala	52 Kälayukta .	***
4119	940	1075	424	192-93	1017-18	51 Pingala .	53 Siddhärthin .	6 Bhādrapada
4120	941	1076	425	193-94	1018-19	52 Kālayukta .	54 Raudra .	1
4121	942	1077	426	194-95	1019-20	53 Siddharthin .	55 Durmati	
4122	943	1078	427	195-96	*1020-21	54 Raudra .	56 Dundubhi	5 Śrāyaņa .

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		CO	MMENCEMEN	T OF THE						
	SOLAR YE	AR.	LUNI-SOLA	Luni-solar year (nean sunrise of civil day on which Chaitra Sukla I ends),						
Day and month, A.L	Week. day.	Time of tro Mësha-sam kranti,		Week- day,	a	6	0	Kal		
13	14	17	19	20	23	24	25	1		
01.75		H. M. S.				-		1		
21 Mar. (81)		15 29 24	22 Feb. (53)	0 Sat.	9877-5411	173-7640	199-1484	4098		
21 Mar. (80)		21 41 33	12 Mar. (71)	6 Fri	9912-2243	109-7575		4000		
22 Mar. (81)		3 53 42	2 Mar. (61)	4 Wed	126-5792	993-2933	C. C. C. C. C. C. C. C. C. C. C. C. C. C	4100		
22 Mar. (81)	The state of the s	10 5 51	21 Mar. (80)	3 Tues	161-2616	The state of the s	V37.5574.595	4101		
21 Mar. (81)	5 Thur	16 18 0	9 Mar. (69)	0 Sat	36-9845	776-5307	242-8385	4102		
21 Mar. (80)	6 Fri	22 30 9	27 Feb. (58)	5 Thur	251-3393	660-0664	214-7531	4103		
22 Mar. (81)	1 Sun	4 42 18	17 Mar. (76)	3 Tues.	9947-3897	559-7683	263-3257	4104		
22 Mar. (81)	2 Mon	10 54 27	6 Mar. (65)	0 Sat	9823-1125	407-0122	232-5025	4105		
21 Mar. (81)	3 Tues	17 6 36	24 Feb. (55)	5 Thur	37-4674	290-5480	204-4171	4108		
21 Mar. (80)	4 Wed	23 18 45	13 Mar. (72)	3 Tuez.	9733-5177	190-2498	253-9897	4107		
22 Mar. (81)	6 Fri	5 30 54	3 Mar. (62)	1 Sun	9947-8726	73-7855	224-9042	4108		
22 Mar. (81)	0 Sat	11 43 3	21 Feb. (52)	6 Fri	162-2275	957-3273	196-8189	4109		
1 Mar. (81)	1 Sun	17 55 12	11 Mar. (71)	5 Thur	196-9097	893-3146	248-1293	4110		
2 Mar. (81)	3 Tues.	0 7 21	28 Feb. (59)	2 Mon. :	72-6326	740-5588	217-3061	4111		
2 Mar. (81)	4 Wed	6 19 30	19 Mar. (78)	I Sun	107-3140	676-5522	The second	4112		
2 Mar. (81)	VINNE TO	12 31 39	8 Mar. (67)	5 Thur.	9983-0379	523-7962		4113		
Mar. (81)		A THE REAL PROPERTY.		2 Mon	9858-7607	371-0403		4114		
Mar. (81)	1 Sun.		15 Mar. (74)	1 Sun	9893-4431	307-0338		4115		
100	2 Mon	7 8 6	The state of the s	5 Thur	9769-1660	154-2779		1116		
1000			and the state of the	3 Tues- ,	9983-5207	37-8125	911	1117		
- 740 I	Carried Street, Street			Mop.	18-2031	973-8070	ALCOHOL:	1118		
44 CONT.				Sat	232-5580	857-3427	ANNUAL V	1119		
	100			Fri.	267-2404	793-3362	SERVICEN III	120		
WEST PROPERTY.	Sun I			Tues, .	142-9632	A . A		121		
mar. (81) 2	Mon 20	21 0 2	7 Feb. (58) 0	Sat.	18-6860			122		

TABLE

					CONCU	RRENT Y	EAR.		
K	ali.	Šaka.	Chaîtrădi Vikrama.	Meshidi solar year in Bengal.	Kollam.	A.D.	Jovian Sax Southern system.	Northern system.	Intercalated (adhika) and suppressed (kshaya) true lunar months.
	1	2	3	3a	4	5	6	7	8 a
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1123 1124 1125 1126 1127 1128 1129 1130 1130 1131 1133 1134 1133 1134 1135 1136 1137 1138 1138 1138 1138 1138 1138 1138	944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 969	1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094	428 429 430 431 432 433 434 435 436 437 438 439 440 441 442	196-97 197-98 198-99 199-200 200-01 201-02 202-03 203-04 204-05 205-06 206-07 207-08 208-09 209-10 210-11 211-12	1021-22 1022-23 1023-24 *1024-25 1025-26 1026-27 1027-28 *1028-29 1029-30 1030-31 1031-32 *1032-33 1033-34 1034-35 1035-36 *1036-37 1037-38	55 Durmati 56 Dundubhi 57 Rudhirödgärin 58 Raktāksha 59 Krödhana 60 Kshaya 1 Prabhava 2 Vibhava 3 Šukla 4 Pramēda 5 Prajāpati 6 Angīras 7 Šrīmukha 8 Bhāva 9 Yuvan 10 Dhātri 11 Išvara	57 Rudhirödgärin 58 Raktäksha 59 Krödhana 60 Kshaya 1 Prabhava 2 Vibhava 3 Šukla 4 Pramöda 5 Prajäpati 6 Angiras 7 Šrimukha 8 Bhāva 9 Yuvan 10 Dhātri 11 Iśvara 12 Bahudhānya 13 Pramāthin	3 Jyčshtha
	4140	961	1096	447	213-14	1038-39	12 Bahudhānya .	14 Vikrama .	
	4141	-	1000	7.00		1039-40		15 Vrisha	4 Āshāḍha .
	4142		2000			*1040-41	14 Vikrama . 15 Vrisha	WE WAVE TO	***
	4144		27,170	1000				A CONTRACTOR OF THE PARTY OF TH	3 Jyështha .
	4148	966	1101	45	0 218-19	1043-44	17 Subhānu .	19 Pārthiva .	
	4146	967	1102	45	1 219-20	*1044-45	18 Tūraņa	20 Vyaya	7 Aśvina .
	4147	968	1103	4.53	2 220-21	1045-46	19 Pärthiva .	21 Sarvajit .	

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			COMMENCEME					
	Solar YEA	R.	LUNI-SOLAR	YEAR (MEA CHAITI	n sunbise o la sukla 1 e	F CIVIL DAY NDS).	ON WHICH	
Day and nonth, A.D.	Week-day.	Time of true Mësha-sam- kranti.	Day and month, A.D.	Week-day.	а	6	c	Kal
13	14	17	19	.20	23	24	25	1
		H. M. S.		a land a land	And Calvery	A STATE OF THE STA		1
2 Mar. (81)	4 Wed	2 33 9	17 Mar. (76)	6 Fri.	53-3685	423:8178	263:3090	412
2 Mar. (81)	5 Thur	8 45 18	6 Mar. (65)	3 Tues	9929-0902	271-0618	232-7480	412
2 Mar. (81)	6 Fri. ,	14 57 27	23 Feb. (54)	0 Sat	9804-8141	118:3068	201-9238	412
1 Mar. (81)	0 Sat	21 9 36	13 Mar. (73)	6 Fri	9839-4965	54-2993	253-2353	412
2 Mar. (81)	2 Mon	3 21 45	3 Mar. (62)	4 Wed	53-8514	937-8350	225-0498	4123
2 Mar. (81)	3 Tues	9 33 54	21 Feb. (52)	2 Mon	268-2062	821-3708	197-0643	4128
2 Mar. (81)	4 Wed	15 46 3	12 Mar. (71)	1 Sun.	302-8885	757-3642	248:3748	4129
1 Mar. (81)	5 Thur	21 58 12	29 Feb. (60)	5 Thur	178-6114	604-6082	217-5517	4130
2 Mar. (81)	0 Sat	4 10 21	19 Mar. (78)	4 Wed	213-2937	540-6018	268-8620	4131
2 Mar. (81)	1 Sun	10 22 30	8 Mar. (67)	1 Sun	89-0166	387:8457	238-0388	4132
2 Mar. (81)	2 Mon	16 34 39	25 Feb. (56)	5 Thur	9964-7395	235-0898	207-2156	4133
Mar. (81)	3 Tues	22 46 48	15 Mar. (75)	4 Wed	9909-4219	171-0833	258-5271	4134
2 Mar. (81)	5 Thur	4 58 57	4 Mar. (63)	1 Sun.	9875-1447	17-3274	227-7028	4135
2 Mar. (81)	6 Fri	11 11 6	22 Feb. (53)	6 Fri.	.89-4995	901-8631	199-6173	4136
Mar. (81)	0 Sat	17 23 5	13 Mar. (72)	5 Thur	124-1819	837-8565	250-4278	4137
Mar. (81)	I Sun	23 35 24	1 Mar. (61)	2 Mon	9999-9048	685-1006	219-6046	4138
Mar. (81)	3 Tues	5 47 33	20 Mar. (79)	1 Sun	34-5871	621-0940	271-4150	4139
Mar. (81)	4 Wed	11 59 42	9 Mar. (68)	5 Thur.	9910-3100	468-3381	239-5919	4140
Mar. (81)	5 Thur.	18 11 50	26 Feb. (57)	2 Mon.	9786-0320	315-5822	209-7686	4141
Mar. (82)	0 Sat.	0 23 59	16 Mar. (76)	1 Sun	9820-7152	251-5756	261-0791	4142
Mar. (81)	1 Sun	6 36 8	6 Mar. (65)	6 Fri	35-0700	145-1113	232-9936	
Mar. (81)	2 Mon	The same war	23 Feb. (54)	3 Tues	9910-7929	989-3553	HO TOWN	4143
Mar. (81)	3 Tues.	19 0 26	14 Mar. (73)	2 Mon.	9915-4753	915-3478	Ant age	4144
A CONTRACTOR OF STREET	5 Thur	1 12 35	3 Mar. (63)	0 Sat.	159-8301	NAME OF THE OWNER, OWNER, OWNE	AND DOOR OF THE	4145
THE PERSON NAMED IN	6 Fri.		22 Mar. (81)	6 Fri.	194-5125	737-8780	TO CONTRACTOR OF THE PARTY OF T	4146

TABLE

				CONCUI	RRENT Y	EAR		PT
Kali.	Śaka.	Chaitradi Vikrama.	Meshadi solar year in Bengal.	Kollam.	A.D.	JOVIAN SAN	Northern system.	Intercalated (adhika) and suppressed (kshaya) true lunar months.
1	2	3	3a	4	5	6	7	8a
4148 4149 4150 4151	969 970 971 972	1104 1105 1106 1107	453 454 455 456	221-22 222-23 223-24 224-25	1046-47 1047-48 *1048-49 1049-50	20 Vyaya	22 Sarvadhārin . 23 Virōdhin . 24 Vikrita 25 Khara	5 Srāvaņa
4152	973	1108	457	225-26	1050-51	24 Vikrita	26 Nandana .	3 Jyeahtha .
4153	974	1109	458	226-27	1051-52	25 Khara	27 Vijaya	
4154	975	1110	459	227-28	*1052-53	26 Nandana .	28 Jaya	
4155	976	1111	460	228-29	1053-54	27 Vijaya	29 Manmatha .	2 Vaišākha .
4156	977	1142	461	229-30	1054-55	28 Jaya	30 Durmukha .	
4157	978	1113	462	230-31	1055-56	29 Manmatha .	31 Hēmalamba .	6 Bhādrapada
4158	979	1114	463	231-32	*1056-57	30 Durmukha .	32 Vilamba .	The same
4159	980	1115	464	232-33	1057-58	31 Hēmalamba .	33 Vikārin .	
416	981	1116	465	233-34	1058-59	32 Vilamba -	34 Sarvarin .	4 Åshādha .
416	1 982	1117	466	234-35	• 1059-60	33 Vikārin .		***
416	983	1118	467	235-36	*1060-61	34 Sarvario	HAMMATAN WALLS OF	
456	3 984	1119	468	236-37	1061-62	35 Plava	The second second	Tonita continue
416	4 988	1120	469	237-38	1062-63	THE COMMON THROW IN		
416	5 98	6 112	1 470	238-39	1063-64	37 Sõbhana	22.242.47	7 Aávina
410	98	7 112	2 471	239-40	*1064-65	Carrier and the	The management of	
416	17 98	He			1065-60	The second second	OF STATE STATE OF STA	
410	7/1 7/10			and the same		The same of the sa	. 42 Kilaka .	. 5 Šrāvaņa
41							. 43 Saumya . 44 Sādhārana	*
41						THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS	a language and the second	2 Yestehan
41		E UMO				THE WARD IN		3 Jyeshths
41	72 9	03 11:	28 47	7 245-46	1070-7	1 44 Sadmithin	. 46 Paridhävin	-

LXXXII-Contd.

				OF THE	MENCEMENT (COM		
Ka	S WHICH		SUNRIME OF SURLA 1 EN		LUNI-SOLAR		OLAR YEAR	8
	e .	ь	d	Week- day.	Day and month, A.D.	Time of true Mësha-sam- kranti.	Week-day.	Day and month, A.D.
1	25	24	23	20	19	17	14	13
26 41	245-8826	585-1221	70-2354	3 Tues	11 Mar. (70)	H. M. S. 13 36 53	0 Sat	22 Mar. (81)
94 41	215-0594	432-3661	9945-9581	0 Sat.	28 Feb. (59)	19 49 2	I Sun	22 Mar. (81)
97 41	206-3697	368-3596	9980-6406	6 Fri	18 Mar. (78)	2 1 11	3 Tues	22 Mar. (82)
66 413	235-5466	215-6036	9856-3634	3 Tues	7 Mar. (66)	8 13 20	4 Wed	22 Mar. (81)
36 415	207-7536	99-1393	70 7183	1 Sun.	25 Feb. (56)	14 25 29	5 Thur	22 Mar. (81)
16 410	258-7716	35-1328	105-4006	0 Sat.	16 Mar. (75)	20 37 38	6 Fri	22 Mar. (81)
83 417	227-9483	882-3769	9981-1235	4 Wed	4 Mar. (64)	2 49 47	1 Sun	22 Mar. (82)
29 418	199-8629	767-9126	195-4783	2 Mon	22 Feb. (53)	9 1 56	2 Mon	22 Mar. (81)
34 413	251-1734	701-9061	230-1606	1 Sun	13 Mar. (72)	15 14 5	3 Tues	22 Mar. (81)
01 41	220:3501	549:1501	105-8835	5 Thur.	2 Mar. (61)	21 26 14	4 Wed	22 Mar. (81)
05 41	271:6605	485-1435	140-5659	4 Wed	20 Mar. (80)	3 38 23	6 Fri	22 Mar. (82)
75 410	240-8375	333-3876	16-2888	1 Sun. *.	9 Mar. (68)	9 50 32	0 Sat	22 Mar. (81)
42 410	210-0142	179-6317	9892-0116	5 Thur	26 Feb. (57)	16 2 41	1 Sun.	22 Mar. (81)
46 416	261-3246	115-6452	9926-6940	4 Wed	17 Mar. (76)	22 14 50	2 Mon	22 Mar. (81)
91 416	233-2391	999-1608	141-0488	2 Mon	6 Mar. (66)	4 26 59	4 Wed	22 Mar. (82)
59 410	202-4159	856-4049	16-7716	6 Fri	23 Feb. (54)	10 39 8	5 Thur	22 Mar. (81)
64 41	253-7264	782-3983	51:4540	5 Thur.	14 Mar. (73)	16 51 17	6 Fri	22 Mar. (81)
09 41	225-6409	665-9341	265-8089	3 Tues	4 Mar. (63)	23 3 26	0 Sat	22 Mar. (81)
35 41	274-2135	565-6363	9961-8593	1 Sun	21 Mar. (81)	5 15 35	2 Mon	22 Mar. (82)
03 41	243-3903	412-8799	9837-5821	5 Thur	10 Mar. (69)	11 27 44	3 Tues	22 Mar. (81)
50 41	215-3050	296-4157	51-9369	3 Tues	28 Feb. (59)	17 39 53	4 Wed	22 Mar. (81)
75 41	263-8775	196-1174	9747-9874	1 Sun	18 Mar. (77)	23 52 2	5 Thur	22 Mar. (81)
021 41	235-7921	79-6532	9962-3421	6 Fri	7 Mar. (67)	6 4 11	0 Sat	22 Mar. (82)
67 41	207-7067	963-1888	176-6970	4 Wed	25 Feb. (56)	12 16 20	1 Sun	22 Mar. (81)
72 41	259-0172	899:1823	211-3794	3 Tues	16 Mar. (75)	18 28 29	2 Mon	22 Mar. (81)

Kali. Saka.	-				CONCL	URRENT Y	EAR.		
1 2 3 3a 4 5 6 7 8a 4173 994 1129 478 246-47 1071-72 45 Virôdhakrit . 47 Pramādin (Mārpotī (kəh 1474 995 1130 479 247-48 *1072-73 46 Paridhāvin . 48 Ānanda . 2 Vaišākha . 4175 996 1131 480 248-49 1073-74 47 Pramādin (49 Rākshasa			rama.	year	THE REAL PROPERTY.	4.00	Jovian Sal	ivatsara.	Intercalated (adhika) and suppressed
1 2 3 3a 4 5 6 4173 994 1129 478 246-47 1671-72 45 Virôdhakrit . 47 Pramādin . 9 Mārgoā: (kāh 4174 995 1130 479 247-48 *1072-73 46 Paridhāvin . 48 Ānanda . 2 Vaišākha 4175 996 1131 480 248-49 1073-74 47 Pramādin . 49 Rākshasa . 6 Bhādrapad 4177 998 1133 482 250-51 1075-76 49 Rākshasa . 52 Kālayukfa 4178 999 1134 483 251-52 *1076-77 50 Anala 53 Siddhārthin	Kali.	Śaka.	Chaitradi Vilo	Meshādi solar in Bengal.	Kollam.	A.D.	CO. M. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO	C2 2 C0 () () () ()	(kshaya) true lunar months.
4173 994 1129 478 246-47 1071-72 45 Virādhakrit 47 Pramādin 19 Mārgat: (Esh 4174 995 1130 479 247-48 *1072-73 46 Paridhāvin 48 Ānanda 2 Vaišākha 4175 996 1131 480 248-49 1073-74 47 Pramādin 49 Rākshasa	1	2	3	-	4	5	6	7	8a
4174 995 1130 479 247-48 *1072-73 46 Paridhāvin . 48 Ānanda . 2 Vaišākha 4175 996 1131 480 248-49 1073-74 47 Pramādin . 40 Rākshasa					A 7 C S S S S S S S S S S S S S S S S S S	- Alert - Ale	4- VII - II V II	to Describing 5	8 Kärttika .)
4174 995 1130 479 247-48 1072-73 40 Farmādin 40 Rākshasa 4176 997 1132 481 249-50 1074-75 48 Ānanda 50 Ānulaţ 6 Bhādrapud 4177 998 1133 482 250-51 1075-76 49 Rākshasa 52 Kālayukta 4178 999 1134 483 251-52 *1076-77 50 Ānula 6 55 Durmāti 6 Bhādrapud 4179 1000 1135 484 252-53 1077-78 51 Pingala 54 Raudra 6 Āshādha 6 1001 1136 485 253-54 1078-79 52 Kālayukta 55 Durmāti 6 6 Mshādhā 6 1001 1136 485 253-54 1078-79 52 Kālayukta 55 Durmāti 7 6 Dundubhi 7 6 Dundubhi 7 6 Dundubhi 7 6 Dundubhi 7 6 Dundubhi 7 6 Dundubhi 7 6 Dundubhi 7 6 Dundubhi 8 6 Dundubhi 8 6 Dundubhi 8 7 7 Rudhirōdgārin 8 1004 1139 488 256-57 1081-82 55 Durmati 7 8 Raktāksha 7 8 Raktāksha 7 8 Raktāksha 7 8 Raktāksha 7 8 Raktāksha 7 8 Raktāksha 8 1004 1144 490 258-59 1083-84 57 Rudhirōdgārin 60 Kshaya 7 8 Krādhana 18 1008 1144 490 258-59 1083-84 57 Rudhirōdgārin 60 Kshaya 7 8 Raktāksha 8 1009 1144 490 259-60 *1084-85 58 Raktāksha 7 1 Prabhava 7 8 Prapāpati 8 1009 1144 490 260-61 1085-86 50 Krādhana 2 Vibhava 8 1009 1144 490 261-62 1086-87 60 Kshaya 8 1 Prabhava 8 1009 1144 490 261-62 1086-87 60 Kshaya 8 1 Prabhava 8 1009 1144 490 261-62 1086-87 60 Kshaya 8 1 Prabhava 8 1009 1144 490 261-62 1086-87 60 Kshaya 8 1 Prabhava 8 1009 1144 490 261-62 1086-87 60 Kshaya 8 1 Prabhava 8 1009 1144 490 261-62 1080-80 3 Sukla 8 1 Prapāpāti 8 1010 1145 494 262-63 1087-88 1 Prabhava 8 1 Prapāpāti 8 1010 1145 494 262-63 1080-90 3 Sukla 8 1 Prapāpāti 8 1010 1145 494 262-63 1080-90 3 Sukla 8 1 Prapāpāti 8 1010 1149 498 266-67 1091-92 5 Prapāpāti 8 1010 1149 498 266-67 1091-92 5 Prapāpāti 8 1010 1151 1150 499 267-68 *1092-90 6 Angiras 9 Yavan 8 1 Chaitra 1016 1151 500 268-69 1093-94 7 Srimukha 10 Dhātri 6 1 Bhādrapad 1196 1017 1152 501 269-70 1094-95 8 18hāva 11 Lávara 19 Yavan 19 Ya	4173	994	1129	478	246-47		TATAL SANSAN DESCRIPTION OF SANSAN DESCRIPTI	NATURAL DESIGNATION OF THE PARTY OF THE PART	THE RESIDENCE OF THE PARTY OF T
4175 996 1131 489 248-49 1073-74 48 Ānanda . 50 Āmala† . 6 Rhādrapad 4177 998 1133 482 250-51 1075-76 49 Rākshasa . 52 Kālayukta	4174	995	1130	479	247-48	*1072-73	The state of the s	200	
4176 997 1132 481 249-00 1074-75 49 Rākshasa . 52 Kālayukla	4175	996	1131	480	248-49	1073-74	State of the state	1-1-1-1	
4178 999 1134 483 251-52 *1076-77 50 Anala	4176	997	1132	481	249-50	1074-75			6 Buadrapada
4178 999 1134 483 251-52 1077-78 51 Pingala . 54 Rawdra	4177	998	1133	482	250-51	1075-76	49 Rākshasa	100112000000000000000000000000000000000	
4180 1001 1136 484 252-53 1073-8 51 Fragas	4178	999	1134	483	251-52	*1076-77	50 Anala .	SERVICE AND MANAGEMENT AND	1000
4180 1001 1136 485 253-54 1078-13 32 Kalayana 55 Dundubhi	4179	1000	1135	484	252-53	1077-78	51 Pingala .	54 Raudra	4 Ashādha
#182 1003 1138 487 255-56 *1080-81 54 Randra . 57 Rudhirōdgārin 3 Jyēshṭha #183 1004 1139 488 256-57 1081-82 55 Durmati . 58 Raktāksha	4180	1001	1136	485	253-54	1078-79	52 Kālayukta .	55 Durmati .	
4182 1003 1138 487 256-56 1080-51 57 Landubhi 58 Raktāksha . 4184 1005 1140 489 257-58 1082-83 56 Dundubhi . 59 Krödhana . 7 Āśvina 4185 1006 1141 490 258-59 1083-84 57 Rudhirōdgārin 60 Kshaya . 7 Āśvina <td>4181</td> <td>1002</td> <td>1137</td> <td>486</td> <td>254-55</td> <td>1079-80</td> <td>53 Siddhārthin .</td> <td>56 Dundubhi .</td> <td></td>	4181	1002	1137	486	254-55	1079-80	53 Siddhārthin .	56 Dundubhi .	
4183 1004 1139 488 250-57 1081-82 55 Dundubhi . 59 Krödhana . 7 Āśvina 4184 1005 1140 489 257-58 1082-83 56 Dundubhi . 59 Krödhana . 7 Āśvina 4185 1006 1141 490 258-59 1083-84 57 Rudhirōdgārin 60 Kshaya 4186 1007 1142 491 259-60 *1084-85 58 Raktāksha . 1 Prabhava 4187 1008 1143 492 260-61 1085-86 59 Krōdhana . 2 Vibhava . 5 Śrāvaṇa 4188 1009 1144 493 261-62 1086-87 60 Kshaya . 3 Śukła 4189 1010 1145 494 262-63 1087-88 1 Prabhava . 4 Pranōda 4190 1011 1146 495 263-64 *1088-89 2 Vibhava . 5 Prajāṇatā . 3 Jyēshtha 4191 1012 1147 496 264-65 1089-90 3 Śukła 6 Aṅgiras 4192 1013 1148 497 265-66 1090-91 4 Pramōda . 7 Śrīmukha . 10 Pansha (ks. 10 P	#182	1003	1138	487	255-56	*1080-81	54 Randra .	57 Rudhirödgårin	3 Jyështha .
4184 1005 1140 489 257.58 1082.83 55 Raktāksha 60 Kshaya	4183	1004	1139	488	256-57	1081-82	55 Durmati .	58 Raktāksha .	
4185 1006 1141 490 258-59 1083-84	4184	1005	1140	489	257-58	1082-83	56 Dundubhi .	59 Krödhana .	7 Āśvina .
4187 1008 1143 492 260-61 1085-86 59 Krödhana 2 Vibhava 5 Śrāvaņa 4188 1009 1144 493 261-62 1086-87 60 Kshaya 3 Śukla 4189 1010 1145 494 262-63 1087-88 1 Prabhava 4 Pranaōda 4190 1011 1146 495 263-64 *1088-89 2 Vibhava 5 Prajāpati 3 Jyēshtha 4191 1012 1147 496 264-65 1089-90 3 Šukla 6 Ańgiras 4192 1013 1148 497 265-66 1090-91 4 Pramōda 7 Śrimukha 10 Pausha (ka 4193 1014 1149 498 266-67 1091-92 5 Prajāpati 8 Bhāva 1 Chaitra 4194 1015 1150 499 267-68 *1092-93 6 Aṅgiras 9 Yavan 4195 1016 1151 500 268-69 1093-94 7 Śrimukha<	4185	1006	1141	490	258-59	1083-84	57 Rudhirödgārin	60 Kshaya .	***
4187 1008 1143 492 200-61 1086-87 60 Kshaya . 3 Šukta	4186	1007	1142	491	259-60	*1084-85	58 Raktāksha .	1 Prabhava .	
4188 1009 1144 493 261-62 1080-81 to Prabhava . 4 Prataōda	4187	1008	1143	492	260-61	1085-86	59 Krôdhana -	2 Vibhava .	5 Śrāvaņa .
4189 1010 1145 494 262-63 1087-88 1 Prabhava . 4 Pranoda 4190 1011 1146 495 263-64 *1088-89 2 Vibhava . 5 Prajāpati . 3 Jyčshtha 4191 1012 1147 496 264-65 1089-90 3 Šukla 6 Angiras 4192 1013 1148 497 265-66 1096-91 4 Pramoda . 7 Šrimukha i 10 Pausha (ka 4193 1014 1149 498 266-67 1091-92 5 Prajāpati . 8 Bhāva 1 Chaitra 4194 1015 1150 499 267-68 *1092-93 6 Angiras . 9 Yavan 4195 1016 1151 500 268-69 1093-94 7 Šrīmukha . 10 Dhātri 6 Bhādrapad 4196 1017 1152 501 269-70 1094-95 8 Bhāva 11 Išvara	4188	1009	1144	493	261-62	1086-87	60 Kshaya .	3 Śukla	
4190 1011 1146 495 263-64 *1088-89 2 Vibhava . 5 Prajāpati . 3 Jyčshtha 4191 1012 1147 496 264-65 1089-90 3 Šukla . . 6 Angiras . . 4192 1013 1148 497 265-66 1090-91 4 Pramōda . 7 Šrimukha † 10 Pausha (ka 4193 1014 1149 498 266-67 1091-92 5 Prajāpati . 8 Bhāva . 1 Chaitra 4194 1015 1150 499 267-68 *1092-93 6 Angiras . 9 Yavan . . 4195 1016 1151 500 268-69 1093-94 7 Šrimukha . 10 Dhātri . 6 Bhādrapad 4196 1017 1152 501 269-70 1094-95 8 Bhāva . . 11 Iávara . .	0.000	1010	1145	494	262-63	1087-88	1 Prabhava .	4 Prataöda .	
4191 1012 1147 406 264-65 1089-90 3 Šukla . 6 Angiras . 4192 1013 1148 497 265-66 1090-91 4 Pramöda . 7 Śrimukha 6 Kārttika 4193 1014 1149 498 266-67 1091-92 5 Prajāpati . 8 Bhāva . 1 Chaitra 4194 1015 1150 499 267-68 *1092-93 6 Angiras . 9 Yuvan . . 4195 1016 1151 500 268-69 1093-94 7 Śrimukha . 10 Dhātri . 6 Bhādrapad 4196 1017 1152 501 269-70 1094-95 8 Bhāva . . 11 Iávara . .	10000000			495	263-64	*1088-89	2 Vibhava .	ā Prajāpati .	3 Jyeshtha .
4192 1013 1148 497 265-66 1096-91 4 Pramôda . 7 Śrimukha 6 Kārttika 4193 1014 1149 498 266-67 1091-92 5 Prajāpati . 8 Bhāva . 1 Chaitra 4194 1015 1150 499 267-68 *1092-93 6 Angiras . 9 Yavan . . 4195 1016 1151 500 268-69 1093-94 7 Śrimukha . 10 Dhātri . 6 Bhādrapad 4196 1017 1152 501 269-70 1094-95 8 Bhāva . . 11 Iávara . .		0 170705	1 40 000	496	264-65	1089-90	3 Šukla	6 Angiras .	The state of the s
4193 1014 1149 498 266-67 1091-92 5 Prajāpati . 8 Bhāva . 1 Chaitra 4194 1015 1150 499 267-68 *1092-03 6 Angiras . 9 Yuvan . . 4195 1016 1151 500 268-69 1093-94 7 Śrāmukha . 10 Dhātri . 6 Bhādrapad 4196 1017 1152 501 269-70 1094-95 8 Bhāva . . 11 Iávara . .		S SECOND	1223	1	Sand	1090-91	4 Pramôda .	7 Śrimukha	
4194 1015 1150 499 267.68 *1092.93 6 Angiras . 9 Yavan . . 4195 1016 1151 500 268.69 1093.94 7 Śrimukha . 10 Dhātri . 6 Bhādrapad 4196 1017 1152 501 269.70 1094.95 8 Bhāva . . 11 Iśvara . .			1000	1000	266-67	1091-92	5 Prajāpati .	o Ditton	1 2 3 21
4195 1016 1151 500 268-69 1093-94 7 Śrimukha . 10 Dhātri . 6 Bhādrapad 4196 1017 1152 501 269-70 1094-95 8 Bhāva . . 11 Iávara . .		A CONTRACTOR	100			*1092-93	6 Angiras .	9 Yavan	
4196 1017 1152 501 260-70 1004-95 8 Bhāva 11 Iávara		ha te tana				1093-94	7 Śrimukha .	10 Dhātri	6 Bhādrapada
			10000	2000	AND PERSONS IN	1094-95	s Bhāva	11 Isvara	***
4197 1018 1153 502 270.71 1095.96 9 Yuyan 12 Bahudhanya		1000000	1	1		1095-96	9 Yuyan	12 Bahudhānya .	-

† 51 Pingala was suppressed in the north.

LXXXII-Contd.

				OF THE	MENCEMENT	COM		
	N WHICH		SUNBISE OF A SUKLA I EN		LUNI-SOLAR		Solah year	8
Kali.	a	6	a	Week- day.	Day and month, A.D.	Time of true Mësha-sam- kranti.	Week-day.	Day and month, A.D.
1	25	24	- 23	20	19	17	14	13
77 N In	THE PROPERTY OF THE				The Lat	н. м. в.		
4173	228-1939	746-4264	87-1023	0 Sat	5 Mar. (64)	0 40 38	4 Wed.	23 Mar. (82)
4174	197-3706	593-6705	9962-8251	4 Wed.	22 Feb. (53)*	6 52 47	5 Thur.	22 Mar. (82)
4175	248-6811	530-6639	9997-5074	3 Tues.	12 Mar. (71)	13 4 56	6 Fri	22 Mar. (81)
4176	217-8580	376-9079	9873-2303	0 Sat	1 Mar. (60)	19 17 5	0 Sat	22 Mar. (81)
4177	269-1683	312-9015	9907-9126	6 Fri.	20 Mar. (79)	1 29 14	2 Mon.	23 Mar. (82)
4178	238-3451	160-1454	9783-6355	3 Tues.	8 Mar. (68)	7 41 23	3 Tues.	22 Mar. (82)
4179	210-2597	43-6812	9997-9904	1 Sun	26 Feb. (57)	13 53 32	4 Wed.	22 Mar. (81)
4180	261-5702	979-6747	32-6728	0 Sat	17 Mar. (76)	20 5 41	5 Thur.	22 Mar. (81)
4181	233-4847	863-2103	247-0275	5 Thur.	7 Mar. (66)	2 17 50	0 Sat	23 Mar. (82)
4182	202-6614	710-4544	122-7504	2 Mon.	24 Feb. (55)	8 29 59	1 Sun	22 Mar. (82)
4183	253-9719	646-4478	157-4328	1 Sun	14 Mar. (73)	14 42 8	2 Mon.	22 Mar. (81)
4184	223-1487	493-6919	33-1557	5 Thur.	3 Mar. (62)	20 54 17	3 Tues.	22 Mar. (81)
4185	274-4591	429-6854	67-8380	4 Wed	22 Mar. (81)	3 6 26	5 Thur.	23 Mar. (82)
4186	245-6358	276-9294	9943;5609	I Sun	10 Mar. (70)	9 18 35	6 Fri	22 Mar. (82)
4187	212-8127	124-1735	9819-2837	5 Thur.	27 Feb. (58)	15 30 43	0 Sat	22 Mar. (81)
4188	264-1231	60-1669	9853-9661	4 Wed.	18 Mar. (77)	21 42 52	1 Sun	22 Mar. (81)
4189	236-0377	943-8027	68-3209	2 Mon.	8 Mar. (67)	3 55 1	3 Tues.	23 Mar. (82)
4190	207-9522	827-2383	282-6758	0 Sat	26 Feb. (57)	10 7 10	4 Wed.	22 Mar. (82)
4191	259-2627	763-2318	317-3582	6 Fri	16 Mar. (75)	16 19 19	5 Thur.	22 Mar. (81)
4102	228-4395	610-4759	193-0810	3 Tues.	5 Mar. (64)	22 31 28	6 Fri	22 Mar. (81)
4193	197-6162	457-7200	68:8039	0 Sat	22 Feb. (53)	4 43 37	1 Sun. ,	23 Mar. (82)
4194	248-9266	393-7134	103-4862	6 Fri	12 Mar. (72)	10 55 46	2 Mon	22 Mar. (82)
4195	218-1035	240-9577	9979-2090	3 Tues.	1 Mar. (60)	17 7 55	3 Tues.	22 Mar. (81)
4196	269-4139	176-9509	13-8914	2 Mon	20 Mar. (79)	23 20 4	4 Wed.	22 Mar. (81)
4197	238-5907	24-1949	9889-6143	6 Fri	9 Mar. (68)	5 32 13	6 Fri	23 Mar. (82)

TABLE

				CONCU	RRENT Y	EAR.		- 10
	H	rama.	r year	1137	Y un	Jovian Sai	IVATSARA.	Intercalated (adhika) and suppressed (kshaya) true
Kall,	Sala.	Chaitradi Vikrama.	Mēshādi solar in Bengal.	Kollam.	A.D.	Southern system.	Northern system.	lunar months.
1	2	3	30	4	5	6	7	84
4198	1019	1154	503	271-72	*1096-97	10 Dhātri	13 Pramāthin	4 Ashādha .
4199	1020	1155	501	272-73	1007-98	11 Iávara	14 Vikrama .	
4200	1021	1156	505	273-74	1098-99	12 Bahudhānya .	15 Vrisha	111 2.2
4201	1022	1157	506	274-75	1099-1100	13 Pramathin .	16 Chitrabhanu .	3 Jyështha .
4202	1023	1158	507	275-76	*1100-01	14 Vikrama	17 Subhānu .	***
4203	1024	1159	508	276-77	1101-02	15 Vrisha	18 Tăraņa	7 Ăśvina .
4204	1025	1160	509	277-78	1102-03	16 Chitrabhānu .	19 Pārthiva .	
4205	1026	1161	510	278-79	1103-04	17 Subhānu .	20 Vyaya	
4206	1027	1162	511	279-80	*1104-05	18 Tărana	21 Sarvajit .	4 Āshādha .
4207	1028	1163	512	280-81	1105-06	19 Pārthiva .	22 Sarvadhārin ,	
4208	1029	1164	513	281-82	1106-07	20 Vyaya	23 Virôdhin .	-
4200	1030	1165	514	282-83	1107-08	21 Sarvajit .	24 Vikrita	3 Jyeshtha .
4210	1031	1166	515	283-84	*1108-09	22 Sarvadhārin .	25 Khara	8 Kārttika
4211	1032	1167	516	284-85	1109-10	23 Virðdhin -	26 Nandana	10 Pausha (ksh)
4212	1033	1168	517	285-86	1110-11	24 Vikrita	27 Vijaya	3
4213	1034	1169	518	286-87	1111-12	25 Khara	28 Jaya	
4214	1035	1170	519	287-88	*1112-13	26 Nandana .	29 Manmatha .	5 Śrāvaņa .
4217	1036	1171	520	288-89	1113-14	27 Vijaya	30 Durmukha .	(1000
4216	1037	1172	521	289-99	1114-15	28 Jaya	31 Hemalamos .	1000
421	1008	1173	522	290-91	1115-16	29 Manmatha .	32 Vilamba .	4 Ashādha .
421	8 1039	1174	525	291-92	*1116-17	30 Durmukha .	33 Vikārin .	A THE M
421	9 1040	1175	524	292-93	1117-18	31 Hēmalamba .	34 Särvarin .	- 12-1-1-1
423	0 1041	1176	52	5 293-94	1118-19	32 Vilamba .	35 Plava	2 Vaišākha .
499	1 1042	1177	52	294-95	1119-20	33 Vikārin .	36 Subhakrit .	ay our
400	2 1043	1178	52	7 295-96	*1120-2	34 Sārvarin .	37 Sobnann	6 shadespada
-		3.	1	1	1			-

LXXXII-Contd.

2	SOLAB YEAR		LUNI-SOLAR		SUNRISE OF SUKLA 1 EN		N WHICH	Kal
Day and nonth A. D.	Week- day.	Time of true Mësha-sam- kranti.	Day and month A. D.	Week- day.	a	b	c	1111
13	14	17	19	20	23	24	25	1
		н. м. 8.						
22 Mar. (82)	0 Sat	11 44 22	27 Feb. (58)	4 Wed.	103-9691	907-7307	210-5052	419
22 Mar. (81)	1 Sun	17 56 31	17 Mar. (76)	3 Tues.	138-6515	843-7242	261-8157	419
3 Mar. (82)	3 Tuest	0 8 40	6 Mar. (65)	0 Sat	14:3744	690-9683	230-9925	420
23 Mar. (82)	4 Wed.	6 20 49	24 Feb. (55)	5 Thur.	228-7201	574-5038	202-8848	420
22 Mar. (82)	5 Thur.	12 32 58	13 Mar. (73)	3 Tues.	9924-7795	474-2057	251-4575	420
22 Mar. (81)	6 Fri	18 45 7	2 Mar. (61)	0 Sat	9800-5024	321-4497	20-6342	420
23 Mar. (82)	1 Sun	0 57 16	21 Mar. (80)	6 Fri	f 835-1847	257-4432	271-9446	420
23 Mar. (82)	2 Mon	7 9 25	11 Mar. (70)	4 Wed	49-5396	140-9788	243-8592	420
22 Mar. (82)	3 Tues.	13 21 34	28 Feb. (59)	1 Sun	9925-2624	988-2229	213-0361	420
22 Mar. (81)	4 Wed.	19 33 43	18 Mar. (77)	0 Sat	9959-9448	924-2154	264-3464	420
23 Mar. (82)	6 Fri	1 45 52	8 Mar. (67)	5 Thur.	174-2996	807-7521	236-2610	42
23 Mar. (82)	0 Sat	7 58 1	25 Feb. (56)	2 Mon	50-0225	654-9962	205-4387	420
22 Mar. (82)	1 Sun	14 10 10	15 Mar. (75)	1 Sun	84-7048	590-9896	256-7483	42
22 Mar. (81)	2 Mon	20 22 19	4 Mar. (63)	5 Thur.	9960-4277	438-2337	225-9250	42
23 Mar. (82)	4 Wed.	2 34 28	23 Mar. (82)	4 Wed.	9995-1101	374-2271	277-2354	42
23 Mar. (82)	5 Thur.	8 46 37	12 Mar. (71)	1 Sun	9870-8330	221-4712	246-4122	42
22 Mar. (82)	6 Fri.	14 58 46	1 Mar. (61)	6 Fri.	85-1877	105-0069	218-3269	42
22 Mar. (81)	0 Sat	21 10 55	20 Mar. (79)	5 Thur.	119-8701	41-0004	269-6373	42
23 Mar. (82)	2 Mon	3 23 4	9 Mar. (68)	2 Mon	9995-5930	888-3444	238-8140	42
3 Mar. (82)	3 Tues.	9 35 13	27 Feb. (58)	0 Sat.	209-9478	771-7891	210-7286	42
22 Mar. (82)	4 Wed.	15 47 22	17 Mar. (77)	6 Fri	244-6302	707-7736	262-0391	42
22 Mar. (81)	5 Thur.	21 59 31	6 Mar. (65)	3 Tues.	120-3530	555-0176	231-2158	42
23 Mar. (82)	0 Sat	4 11 40	23 Feb. (54)	0 Sat.	9996-0759	402-2617	200-3925	42
23 Mar. (82)	1 Sun.	10 23 49	14 Mar. (73)	6 Fri.	30-7582	338-2552	251-7030	42

			1					
				CONCUI	RRENT Y	EAR.		
		таша.	r year		161	Joyian San	VATSARA.	Intercalated (adhika) and suppressed
Kali.	Śaka.	Chaitrādi Vikrams.	Meshadi solat in Bengal.	Kollam.	Δ. D.	Southern system.	Northern system.	(izshaya) true lunar months.
1	2	3	3a	4	5	6	7	Sa
							00 T + 11 L	
4223	1044	1179	528	296-97	1121-22	35 Plava	38 Krödhin .	-111
4224	1045	1180	529	297-98	1122-23	36 Subhakrit .	39 Viávāvasu	
4225	1046	1181	530	298-99	1123-24	37 Sõbhana -	40 Parābhava	4 Āshādha .
4226	1047	1182	531	299-300	*1124-25	38 Krödhin -	41 Plavanga .	
4227	1048	1183	532	,300-01	1125-26	39 Višvāvasu .	42 Kilaka	
4228	1049	1184	533	301-02	1126-27	40 Parābhava .	43 Saumya	3 Jyeshtha .
4229	1050	1185	534	302-03	1127-28	41 Plavanga .	44 Sādhāraņa .	
4230	1051	1186	535	303-04	*1128-29	42 Kilaka	45 Virðdhakrit .	12 Phälguna† .
423	1052	1187	536	304-05	1129-30	43 Saumya .	46 Paridhāvin .	
423	2 1053	1188	537	305-06	1130-31	44 Sādhāraņa	47 Pramādin ,	
423	3 1054	1189	538	306-07	1131-32	45 Virôdhakrit .	48 Ananda .	5 Śrāvaņa .
423	1055	1190	539	307-08	*1132-33	46 Paridhāvin .	49 Rākshasa .	
123	5 1056	1191	540	308-09	1133-34	47 Pramādin .	50 Anala .	1 50 10
423	6 1057	1192	541	309-10	1134-35	48 Ananda .	A STATE OF THE PARTY OF THE PAR	4 Åshādha
123	7 1058	1193	542	310-11	1135-36	49 Rākshasa .	annual Design	
423	8 1059	1194	543	311-12	*1136-37	50 Anala	53 Siddharthin	1444
423	1060	1195	544	312-13	1137-38	51 Pingala	TOTAL CONTRACT OF THE PARTY OF	. 2 Vaišākha .
42	106	1 1196	545	313-14	1138-39	52 Kālayukta	. 55 Durmati	
42	11 106	2 119	546	314-15	1139-40	53 Siddbärthin	. 56 Dundubhi	- 6 Bhadrapada
42	12 106	3 119	8 547	315-16	*1140-4	54 Raudra	. 57 Rudhir dgari	
42	43 106	4 119	9 548	316-17	1141-4	and the same of th	OWN MARKETON	
42	44 106	120	0 549	317-18	1142-4		. 59 Krödhana	. 4 Āshādha ,
42	45 106	6 120	1 550	318-19	1143-4		60 Kshaya	-
45	46 106	120	2 55	319-20	*1144-4	and the same of th	. 1 Prabhava	
45	147 106	120	3 55	2 320-21	1145.4	6 59 Krödhana	. 2 Vibhava	. 3 Jyeshtha .
-	1	-	-		1	-	-	-

+ See " Remarks," p. 455 above.

LXXXII-Contd.

		COM	MENCEMENT	OF THE				
4135	SOLAR YEAR	Re)	LUNI-SOLAR		n sunhise of a sukla 1 ex		os waten	
Day and month A. D.	Week-day.	Time of true Mësha-sath- kranti,	Day and month A. D.	Week-day.	a	6	c	Kali.
13	14	17	19	20	23	24	25	1
		H. M. S.						
22 Mar. (81)	3 Tues.	22 48 7	21 Mar. (80)	2 Mon	9941-1635	121-4928	272-1602	4223
23 Mar. (82)	5 Thur.	5 0 16	11 Mar. (70)	0 Sat.	155-5183	5-0284	244-1047	4224
23 Mar. (82)	6 Fri.	11 12 25	28 Feb. (59)	4 Wed.	31-2411	852-2724	213-2826	4225
22 Mar. (82)	0 Sat	17 24 34	18 Mar. (78)	3 Tnes.	65-9236	788-2659	264-5920	4226
22 Mar. (81)	1 Sun	23 36 43	8 Mar. (67)	1 Sun	280-2784	671-8016	236-5066	4227
23 Mar. (82)	3 Tues.	5 48 52	25 Feb. (56)	5 Thur.	156-0012	519-0457	205-6833	4228
23 Mar. (82)	4 Wed.	12 1 1	15 Mar. (74)	3 Tues.	9852-0516	418-7475	254-2560	4229
22 Mar. (82)	5 Thur.	18 13 10	3 Mar. (63)	0 Sat	9727-7745	265-9915	223-4328	4230
23 Mar. (82)	0 Sat	0 25 19	22 Mar. (81)	6 Fri	9762-4568	201-9851	274-7432	4231
23 Mar. (82)	I Sun	6 37 27	12 Mar. (71)	4 Wed.	9976-8117	85-5207	246-6577	4232
23 Mar. (82)	2 Mon	12 49 36	2 Mar. (61)	2 Mon	191-1665	969-0564	218-5724	4233
22 Mar. (82)	3 Tues.	19 1 45	20 Mar. (80)	1 Sun	225-8489	905-0499	269-8828	4234
23 Mar. (82)	5 Thur.	1 13 54	9 Mar. (68)	5 Thur.	101-5717	752-2939	239-0596	4235
23 Mar. (82)	6 Fri.	7 26 3	26 Feb. (57)	2 Mon. ,	9977-2946	599-5380	208-2363	4236
23 Mar. (82)	0 Sat	13 38 12	17 Mar. (76)	1 Sun	11-9770	535-5314	259-5468	4237
22 Mar. (82)	1 Sun.	19 50 21	5 Mar. (65)	5 Thur.	9887-6999	382-7755	228-7236	4238
23 Mar. (82)	3 Tues.	2 2 30	22 Feb. (53)	2 Mon	9763-4226	230-1095	197-9004	4239
23 Mar. (82)	4 Wed.	8 14 39	13 Mar. (72)	1 Sun	9798-1050	166-0130	249-2108	4240
23 Mar. (82)	5 Thur	14 26 48	3 Mar. (62)	6 Fri	12-4599	49-5488	221-1253	4241
22 Mar. (82)	6 Fri. ,	20 38 57	21 Mar. (81)	5 Thur,	47-1422	985-5422	272-4358	4242
23 Mar. (82)	1 Sun.	2 51 6	11 Mar. (70)	3 Tues.	261-4971	869-0779	244-3503	4243
23 Mar. (82)	2 Mon.	9 3 15	28 Feb. (59)	0 Sat	137-2199	716-3219	214-5272	4244
23 Mar. (82)	3 Tues.	15 15 24	19 Mar. (78)	6 Fri.	171-9024	652-3154	264-837.5	4245
22 Mar. (82)	4 Wed.	21 27 33	7 Mar. (67)	3 Tues.	47-6251	499-5595	274-0143	4246
23 Mar. (82)	6 Fri.	3 39 42	24 Feb. (55)	o Sat	9923-3480	346-9035	203-1913	4247

TABLE

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بالمنا				CONCU	RRENT X	EAR.		
Kali.	Saka.	Chaitrādi Vikrama.	solar year gal.	Kollam.	A. D.	Jovias Sai	IVATSARA.	Intercalated (adhika) and suppressed (kshaya) true junar months.
		Chaitrādi	Meshādi solar in BengaL			Southern system.	Northern system.	lunar montas.
1	2	3	3a	4	5	. 6	7	Sa
						11		
4248	1069	1204	553	321-22	1146-47	60 Kshaya .	3 Sukla	8 Kârttika
4249	1070	1205	554	322-23	1147-48	1 Prabhava .	4 Pramôda	9 Mārgas: (ksh)
4250	1071	1206	555	323-24	*1148-49	2 Vibhava .	5 Prajāpati .	***
4251	1072	1207	556	324-25	1149-50	3 Sukla	6 Angiras .	
4252	1073	1208	557	325-26	1150-51	4 Pramoda .	7 Śrimukha	5 Śrāvaņa .
4253	1074	1209	558	326-27	1151-52	5 Prajāpati .	8 Bhāva	996
4254	1075	1210	559	327-28	*1152-53	6 Angiras .	9 Yuvan	
4255	1076	1211	560	328-29	1153-54	7 Śrimukha .	10 Dhâtri	4 Āshādha .
4256	1077	1212	561	329-30	1154-55	8 Bhāva . ,	11 Iśvara	
4257	1078	1213	562	330-31	1155-56	9 Yuvan	12 Bahudhānya .	•••
4258	1079	1214	563	331-32	*1156-57	10 Dhātri	13 Pramāthin .	2 Vaišākha .
4259	1080	1215	564	332-33	1157-58	Il İśvara	14 Vikrama .	
4260	1081	1216	565	333-34	1158-59	12 Bahudhanya .	15 Vrisha	6 Bhādrapada
4251	1082	1217	566	334-35	1159-60	13 Pramathin .	16 Chitrabhānu†	
4262	1083	1218	567	335-36	*1160-61	14 Vikrama .	18 Tărașa	
4263	1084	1219	568	336-37	1161-62	15 Vrisha	19 Pārthiva .	4 Āshādha .
4264	1085	1220	569	337-38	1162-63	16 Chitrabhanu .	20 Vyaya	***
4265	1080	1221	570	338-39	1163-64	17 Subhānu .	21 Sarvajit .	
4260	1087	1222	571	339-40	*1164-65	18 Tāraņa	22 Sarvadhärin .	3 Jyeshtha .
4267	1088	1223	572	340-41	1165-66	19 Pärthiva .	23 Virôdhin .	
4268	1080	1224	573	341-42	1166-67	20 Vyaya	24 Vikrita .	7 Asvina 10 Panaha (kah)
4288	1090	1225	574	342-43	1167-68	21 Sarvajii ,	25 Khara	12 Phälguna
427	1091	1226	575	313-44	*1168-69	22 Sarvadhārin .	26 Xandana .	
427	1002	1227	576	344-45	1169-70	23 Virôdhin .	27 Vijaya	5 Śrāvaņa .
4.27	1093	1228	577	345-46	1170-71	24 Vikrita	28 Jaya	
-	-	1	Acres 1	1	1			1000

+ 17 Subhanu was suppressed in the north.

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d	SOLAR YEAR	ti E	LUNI-SOLAR		SUNRISE OF A SUKLA I EN		N WHICH	
Day and month A. D.	Week-day.	Time of true Mësha-sati- kranti.	Day and month A. D.	Week- day,	а	b	c	Kal
13	14	17	19	20	23	24	25	1
23 Mar. (82)	0 Sat.	H. M. S. 9 51 51	15 Mar. (74)	6 Fri	0050 0004	000 -0-0		100
23 Mar. (82)	1 Sun.	16 4 0	4 Mar. (63)		9958-0304	282-7970	254-5016	4248
22 Mar. (82)	2 Mon	22 16 9	22 Mar. (82)	3 Tues.	9833-7532	129-0410	223-6783	4249
23 Mar. (82)	4 Wed.	4 28 18	12 Mar. (82)	2 Mon	9868-4356	66-0346	274-9887	4250
23 Mar. (82)	5 Thur.	10 40 27	2 Mar. (61)	0 Sat	82-7905	949-5702	246-9033	425
23 Mar. (82)	6 Fri.	16 52 36	21 Mar. (80)	5 Thur.	297-1453	833-1059	218-6180	4255
22 Mar. (82)	0 Sat	23 4 45	9 Mar. (69)	4 Wed.	331-8276	769-0994	270-1283	4253
3 Mar. (82)	2 Mon	5 16 54	26 Feb. (57)	5 Thur.	207-5505	616-3435	239-3051	425
23 Mar. (82)	3 Tues.	11 29 3	16 Mar. (75)	3 Tues.	83-2734 9779-3237	463-5875	208-4819	4255
13 Mar. (82)	4 Wed.	17 41 12	6 Mar. (65)	1 Sun.	9993-6786	363-2894 246-8250	257-0546	4256
2 Mar. (82)	5 Thur.	23 53 21	23 Feb. (54)	5 Thur.	9869-4024	- STATE OF THE STATE OF	228-9691	4257
23 Mar. (82)	0 Sat.	6 5 30	13 Mar. (72)	4 Wed.	9904-0838	94-0691 30-0625	198-1458	4258
23 Mar. (82)	1 Sun.	12 17 39	3 Mar. (62)	2 Mon.	118-4386	913-5983	249-4563	4259
13 Mar. (82)	2 Mon.	18 29 48	22 Mar. (81)	1 Sun.	153-1210	849-5918	221-3709	4260
3 Mar. (83)	4 Wed.	0 41 57	10 Mar. (70)	5 Thur.	28-8439		272-6813	4261
3 Mar. (82)	5 Thur.	6 54 6	27 Feb. (58)	2 Mon		696-8358	241-8581	4262
3 Mar. (82)	6 Fri.	13 6 15	18 Mar. (77)	1 Sun	9904-5667	544-0799	211-0349	4263
3 Mar. (82)	0 Sat.	19 18 24	7 Mar. (66)	5 Thur.	9814-9719	480-0733	262-3454	4264
3 Mar. (83)	2 Mon.	1 30 33	Lucian Line	3 Tues.		327-3173	231-5221	4265
3 Mar. (82)	3 Tues.	7 42 42	15 Mar. (74)	A Street Control	29-3268	210-8530	203-4366	4266
3 Mar. (82)	and the same	W. 100		2 Mon.	64-0091	146-8465	255-7471	4267
3 Mar. (82)	4 Wed.	13 54 51 20 7 0	4 Mar. (63) 23 Mar. (82)	6 Fri	9939-7320	994-0905	223-9239	4268
3 Mar. (83)	manual.		SHORT PROPERTY.	5 Thur.	100.2000	930-0840	275-2343	4269
100	0 Sat	200	12 Mar. (72)	3 Tues.	183-7692	813-6193	247-1488	6270
3 Mar. (82)	1 Sun.	8 31 18	1 Mar. (60)	0 Sat.	61-4920	660-3438	216-3257	1271

				CONCU	BRENT Y	ZEAR,		
Kali.	Šaka.	Chaitradi Vikrama.	Mëshidi solar year in Bengal.	Kollam.	A. D.	Jovian Sa Southern system.	Northern system.	Intercalated (adhika) and suppressed (kshaya) true lunar months.
1	2	3	3a	4	5	6	7	8a
4273 4274 4275	1094 1095 1006	1229 1230 1231	578 579 580	346-47 347-48 548-49	1171-72 *1172-73 1173-74	25 Khara	29 Manmatha . 30 Durmukha . 31 Hémalamba .	4 Āshāḍha
4276	1007	1232	581	349-50	1174-75	28 Jaya 29 Manmatha .	32 Vilamba	2 Vaišākha .
4277 4278	1098	1233	582	350-51 351-52	*1176-77	30 Durmukha .	34 Śārvarin .	
4279	1100	1235	584	352-53	1177-78	31 Hēmalamba .	35 Plava	6 Bhādrapada
4280	1101	1236	585	353-54	1178-79	32 Vilamba .	36 Śubhakrit .	***
4281	1102	1237	586	354-55	1179-80	33 Vikārin .	37 Śóbhana .	
4282	1103	1238	587	355-56	*1180-81	34 Sărvarin .	38 Krödhin .	4 Āshādha .
4283	1104	1239	588	356-57	1181-82	35 Plava , ,	39 Viávávasu .	10 and 10
4284	1105	1240	589	357-58	1182-83	36 Śubhakrit .	40 Parabhava .	2011
4285	1106	1241	590	358-59	1183-84	37 Šöbhans .	41 Plavanga .	2 Vaišākha .
4286	1107	1242	591	359-60	*1184-85	38 Krödhin .	42 Kilaka	***
4267	1108	1243	592	360-61	1185-86	39 Višvāvasu .	43 Saumya .	6 Bhādrapada
4288	1109	1244	593	361-62	1186-87	40 Parabhava .	44 Sādhāraņa .	****
4289	1110	1245	594	362-63	1187-88	41 Plavanga .	45 Virôdhakrit .	- ***
4290	1111	1246	595	363-64	*1188-89	42 Kilaka	46 Paridhāvin .	5 Śrāvaņa
4291	1112	1947	596	364-65	1189-90	43 Saumya .	47 Pramādin .	740
4295	1113	1248	597	365-66	1190-91	44 Sādhāraņa .	48 Ånanda .	944
4290	1114	1249	598		1191-92		49 Rākshasa .	3 Jyeshtha .
429	1115		1	A CONTRACTOR	*1192-93	A LA SUSSIANISM CONTRACTOR IN	50 Anala , .	
429	1116	The same		and was a me	1193-94	of least flat to the same of	51 Pingala .	1,000
429	8 1117		1 333		1194-95	of the second	52 Kālayukta .	2 Vaišākha .
429	7 11118	1253	605	370-71	1195-96	49 Rākshasa	53 Siddhārthin .	

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			-	OF THE	MENCEMENT	COM				
	N WHICH	CIVIL DAY O	SUNDISE OF SURLA 1 EN	YEAR (MEAN CHAITE	LUNI-SOLAR				SOLAR YEAR	-54
Kal	c	6	4	Week- day-	Day and month A. D.	am-	ne of sha-s krant	Me	Week- day.	Day and month A. D.
1	25	24	23	20	19		17		14	13
4273	236-8129	444-1013	9974-8973	3 Tues.	9 Mar. (68)	S. 36	M. 55	H. 20	3 Tues.	23 Mar. (82)
-	205-9896	291-3454	9850-6201	0 Sat.	26 Feb. (57)	45	7	3	5 Thur.	23 Mar. (83)
4274	257-3001	227-3389	9885-3025	6 Fri	16 Mar. (75)	54	19	9	6 Fri	23 Mar. (82)
4275	229-2147	110-8745	99-6574	4 Wed.	6 Mar. (65)	3	32	15	0 Sat	23 Mar. (82)
56	198-1914	958-1187	9975-3801	1 Sun	23 Feb. (54)	11	44	21	1 Sun	23 Mar. (82)
4277	249-7018	894-1120	10-0625	0 Sat	13 Mar. (73)	20	56	3	3 Tues.	23 Mar. (83)
4275	221-6164	777-6478	224-4174	5 Thur.	3 Mar. (62)	29	8	10	4 Wed.	23 Mar. (82)
4280	272-9269	713-6413	259-0998	4 Wed.	22 Mar. (81)	38	20	16	5 Thur.	23 Mar. (82)
4281	242-1036	560-8853	134-8226	1 Sun.	11 Mar. (70)	47	32	22	6 Fri	23 Mar. (82)
4282	211-2804	408-1294	10-5455	5 Thur.	28 Feb. (59)	56	44	4	1 Sun.	23 Mar. (83)
4283	262-5909	344-1228	45-2279	4 Wed.	18 Mar. (77)	5	57	10	2 Mon.	23 Mar. (82)
4284	231-7677	191-3668	9920-9507	1 Sun.	7 Mar. (66)	14	9	17	3 Tues.	23 Mar. (82)
4285	200-9444	38-6109	9796-6735	5 Thur.	24 Feb. (55)	23	21	23	4 Wed.	23 Mar. (82)
4286	254-9926	10-8960	169-9879	5 Thur.	15 Mar. (75)	32	33	5	6 Fri	23 Mar. (83)
4287	224-1694	858-1401	45-7108	2 Mon.	4 Mar. (63)	41	45	11	0 Sat	23 Mar. (82)
4288	275-4799	794-1335	80-3931	1 Sun	23 Mar. (82)	50	57	17	1 Sun.	23 Mar. (82)
4289	247-3944	677-6693	294-7480	6 Fri	13 Mar. (72)	59	9	0	3 Tues.	24 Mar. (83)
4290	216-5712	524-9133	170-4708	3 Tues.	1 Mar. (61)	8	22	6	4 Wed.	23 Mar. (83)
4201	265-1438	424-6151	9866-5213	1 Sun.	19 Mar. (78)	17	34	12	5 Thur.	23 Mar. (82)
4292	234-3207	271-8592	9742-2440	5 Thur.	8 Mar. (67)	26	46	18	6 Fri	t3 Mar. (82)
4293	206-2352	155-3949	9956-5989	3 Tues.	26 Feb. (57)	35	58	0	1 Sun	24 Mar. (83)
4294	257-5456	91-3884	0091-2813	2 Mon.	16 Mar. (76)	44	10	7	2 Mon.	23 Mar. (83)
4295	229-4602	974-9241	205-6361	0 Sat	6 Mar. (65)	53	22	13	3 Tues.	23 Mar. (82)
4296	198-6370	822-1741	81-3589	4 Wed.	23 Feb. (54)	2	35	19	4 Wed.	3 Mar. (82)
4297	249-9474	758-1608	116-0413	3 Tues.	14 Mar. (73)	11	47	-1	6 Fri	24 Mar. (83)

				CONC	URRENT Y	YEAR.		
		Vilceama.	r year		r ale	JOVIAN SA	MVATSAHA.	Intercalated (adhika) and suppressed
Kali.	Śaka.	Chaitradi Vil	Mēshādi solar in Rengal.	Kollam,	А. D.	Southern system.	Northern system.	(kshaya) true lunar months.
1	2	3	3a	4	5	6	7	8a
4298	1119	1254	603	371-72	*1196-97	50 Anala	54 Raudra .	6 Bhādrapada
4299	1120	1255	604	372-73	1197-98	51 Pingala .	55 Durmati .	***
4300	1121	1256	605	373-74	1198-99	52 Kālayukta .	56 Dundubhi .	: ****
420I	1122	1257	606	374-75	1190-1200	53 Siddharthin .	57 Rudhirödgärin	4 Āshādha
4302	1123	1258	607	375-76	*1200-01	54 Raudra .	58 Raktāksha .	***

LXXXII-Concld.

		CO7	IMENCEMENT	OF THE				1.
	Solar year	R.	LUNI-SOLAR	YEAR (MEA CHAIT	N SUNRISE OF BA SURLA I I	CIVIL DAY (ON WHICH	i i
Day and month A. D.	Week- day.	Fime of true Mësha-sam- kranti,	Day and month A, D,	Week-day.	đ	6	¢	Kali
13	-14	17	19	20	23	24	25	1
23 Mar. (83) 23 Mar. (82) 23 Mar. (82) 24 Mar. (83) 23 Mar. (83)	0 Sat 1 Sun 2 Mon. 4 Wed. 5 Thur.	H. M. S. 7 59 20 14 11 29 20 23 38 2 35 47 8 47 56	2 Mar. (62) 21 Mar. (80) 10 Mar. (69) 27 Feb. (58) 17 Mar. (77)	0 Sat 6 Fis . 3 Tues. 0 Sat	9991-7641 26-4465 9902-1694 9777-8923 9812-5747	605-4056 541-3991 388-6432 235-8872 171-8807	219-1242 270-4346 239-6115 268-7660 260-0765	4298 4299 4300 4301 4302

TABLE LXXXIII-A.

DUARTION AND COLLECTIVE DUBATION OF TRUE SOLAR MONTHS, WITH INCREASE OF " a" " b" " o" AT EACH TRUE SAMERANTI.

By the Brahma-Siddhanta.

Calculated for the year K. Y. 4500, (expired), A. D. 899-900.

"a" in 10,000 ths of circle; "b" and "c" in 1,000 ths; "sun" - solar sankranti.

Luni-solar moath (ending at the second of the	At true solar	Colles	otive	dura o of	tion it	Collective duration in days, hours, etc., and collective increase of a, b, c from true Mēsha-samkrānti to each true samkrānti.	etc., and	collective anti to	At true solar	Len	o dth	f solar mon and increas	Length of solar month preceding each true sankranti, and increase of a, b, c between each such sankranti.	each true between each ti.	samkranti,
kranfis connec- ted with it).	Delica Maria	Day Week day:	Week:	田	M. S.	,e	9	(0)		Day.	Week day.	H. M. S.	u	р	0
1	01	6.0	+		10	9	1-	00	- 0	10	=	123	13	7	12
1. Chaitra	(Mins-earl. (of precious year). (Mesta-sarii.	0		0	0 0	0	0	0	Měsha-sam.	0	0	0 0 0	0	0	0
2. Valifatcha	(Vrishabha-sanh	30	6	01	21 9	474-3381	122-5490	84-6833	Vrishabha-sarta	30	(S)	92 21 9	474-3381	122-5490	84-6833
3. Jyčahtha .	Mithuna-sath.	659	(9)	80	15 57	1111-7956	262-5752	170-6856	Mithuna-sam	31	(3)	9 54 48	637-4575	140-0262	86-0023
4. Ashiidha .}	(Karka-sam.	93	6	23 12	12 15	1820-1580	410-2049	257-2610	Karka-sam.	33	3	14 56 18	708-3024	147-6207	86-5754
5. Srāvaņa	Simha-sam.	125	(9)	10 42	12 48	2480-1360	552-6492	343-4452	Simha sam.	31	(3)	11 30 33	0826-629	142-4443	86-1842
6. Bhadrapada }	(Kanya-sam.	156	(2)	=	41 2	2991-4178	679-1575	428-4273	Kanyā-sam.	22	3	0 58 15	511-2818	126-5083	84-9821
7. Aśvina .	Tula-sam.	180	(4)	65	35 29	3304-2747	784-4003	1208-112	Tolk sam	30	62)	10 54 27	312-8569	105-2428	83-3778
8 Kārttika . {	(Vrisobika-sam.	216 (6)	(9)	20 2	28 50	3433-4472	869-9574	593-6979	Vrišehika-sam.	93	3	21 53 21	129-1725	85-5571	81-8928
9. Märgashra .	Dhanus-sam	246	3	00	25 0	3416-4906	939-8537	674-4092	Dhanus sam.	20	£	11 31 57	9983-0434	69-8963	80-7113
10. Pausha . 3	(Makara-min	275	(3)	16	82 9	3351-2241	4.5725	754-7299	Makara-sam	20	ε	8 6 11	9934-7335	64-7188	80-3207
II. Mäghn	Kumbba-sath.	305	(£)	2 4	49 9	3322-5644	73-2145	835-3466	Kumbha-sam	50	3	10 42 11	9971-3403	68-6420	80-6167
12. Phalguna	(Мпа-кат.	334	6	60	4 25	3414-5580	154-7871	916-9387	Mina-sath .	20	3	19 15 16	91-9936	81-5726	81-5921
following year .	Mesha-sam. (of following year)	365	ε	6 12	6	3688-2056	255-8315 1000-0	0.0001	Menha-sam. (of following year).	30	(3)	8 7 44	273-6476	101-0407	83-0008
	Market market and a									j					-

TABLE LXXXIII-B.

VALUE OF "c" AND OF "EQUATION c" AT THE SEVERAL TRUE SAMERANTIS.

Correct for K. Y. 4000, A. D. 899-900.

"c" in 1,000ths of circle, "equation c" in 10,000ths.

And the second		
Samkrānti.	c	" Equation c."
Měsha-sain.	277-6064	0-9037
Vrishabha-sam.,	362-2899	14-4355
Mithuna-sam	448-2921	41-1356
Karka-sam	534-8676	73-5542
Simha-sam	621-0519	102-0578
Kanyā-sam	706-0241	118-5381
Tulā-sam	789-4020	118-9561
Vrišehika-sam	871-2948	104-1144
Dhanus-sam	- 952-0062	78-3666
Makara-sam	32-3264	48-2336
Kumbha-sam	112-9432	21-0624
Mīna-sarh.	194-5355	3-6494

TABLE LXXXIII-C.

Exact value of " c" and of " equation c" at the moment of true Mrsha-samkranti at beginning of each century K. Y.

" c " in 1,000ths of circle. " Equation c " in 10,000ths.

к. у.	A. D.	e	" Eqn. c."
3700	599-600	277-6309	0-93
3800	699-700	277-6287	0-93
3900	799-800	277-6175	0-93
4000	-899-900	277-6064	0-93
4100	999-1000	277-5952	0-93
4200	1099-1100	277-5840	0-93
4300	1199-1200	277-5728	0-93

TABLES LXXXIV, LXXXV.

" Equation b" and " Equation c" in whole numbers by the Brahma-Siddhanta and Siddhanta-Sirōmani.

Corresponding to Tables VI, VII, "Indian Calendar."

For close detail Tables LV, LVI, (Vol. XV above) are to be used.

"Arg."=moon's (b) or sun's (c) mean anom. in 1,000ths of circle.

TABLE LXXXIV.

TABLE LXXXV.

LUNAR " EQUATION b."

SOLAR "EQUATION c."

Arg.	Eqn.	Arg.		Arg.	Eqn.	Arg.	Ar	g.	Eqn.	Arg.		Arg.	Eqn.	Arg.
0	140	500		500	140	1000		0	60	500		500	60	1000
10	149	490		510	131	990		10	56	490		510	64	990
20	158	480		520	122	980		20	53	480		520	68	980
30	166	470		530	114	970		30	49	470		530	72	970
40	174	460	100	540	105	960		40	46	460		540	75	960
50	183	450		550	97	950		50	42	450		550	79	950
60	191	440		560	88	940		60	38	440		560	82	940
70	199	430		570	80	930		70	34	430		570	86	930
80	207	420		580	73	920		80	31	420		580	89	92
- 90	214	410		590	65	910		90	28	410		590	93	91
100	222	400		600	58	900	1	00	25	400		600	96	90
110	229	390		610	51	890		10	22	390	- 20	610	99	89
120	235	380		620	44	880		20	19	380		620	102	88
130	241	370		630	38	870		30	16	370		630	104	87
140	247	360		640	32	860		40.	14	360		640	107	86
150	253	350		650	27	850	1 3	50	12	350		650	109	85
160	258	340		660	22	840		60	9	340		660	m	84
170	262	330		670	17	830		70	7	330	i	670	113	83
180	266	320		680	13	820		180	6	320	1	680	115	82
190	270	310		690	10	810		190	4	310		690	117	81
200	273	300		700	7	800	1 3	200	3	300		700	118	80
210	275	290		710	4	790		210	2	290		710	119	79
220	277	280		720	2	780		220	1	280	1	720	120	78
230	279	270		730	1	770		230	0	270		730	120	77
240	279	260		740	0	760		240	0	260	1	740	121	76
250	289	250	1	750	0	750	134	250	0	250	1	750	121	75

AUXILIARY TABLE.

0 1	No.	H		Last i	igure of a	rgume	ent		
Difference in Equa- tion.	9	8	7	6	.5	4	3	2	1
Diff				Add o	r substra	et			
9 8 7	8 7 6	7 6 6	6 6 5	5 4	4 or 5 4 3 or 4	4 3 3	3 2 2	2 2 1	1 1 1
6 5 4	4 or 5	5 4 3	3 or 4 3	4 3 2	2 or 3	2 2 2	1 or 2	1 1 1	0 or 1
8 2 1	3 2 1	2 2 1	2 1 1	2 1 1	1 or 2 1 0 or 1	1 1 0	1 1 0	1 0 0	0 0

TABLE LXXXVI.

VALUE OF "a", "b", "c" AT BEGINNING OF CENTURIES OF THE KALIYUGA, BT THE BRAHMA-SIDDHANTA.

K.Y. Cen- tury.	Begin- ning in A.D.	Week- day.	а	b	- 6
37	599	0	6028-1929	719-2529	282-9906
37 38	699	6	4900-0921	308-0530	283-3962
39	799	6	3433-3593	860-5614	281-0640
40	899	6	2305-2584	449-3615	281-4695
41	999	6	1177-1576	38-1616	281-8751
42	1099	6	49-0567	626-9616	282-2807
43	1199	0	8920-9559	215-7617	282-6863

TABLE LXXXVII.

INCREASE OF a, b, c FOR YEARS OF KALIYUGA CENTURY

* = year of 366 days.

Year.	Week- day.	ä	6	c	Year.	Week- day.	ø	ь	•
0	0	0	ō	0	30	3	729-2961	683-8984	0-6759
1	1	3600-6747	246-4522	999-2925	31	4	4329-9708	9 30-3505	999-9683
*12	2	7201-3494	492-9043	998-5849	32	5	7930-6455	176-8027	999-2608
3	4	1140-6560	775-6482	0.6151	*33	6	1531-3202	423-2549	998-5533
4	5	4741-3307	22-1003	999-9076	34	1	5470-6268	705-9987	0-5833
5	6	8342-0054	268-5525	999-2001	35	2	9071-3015	952-4509	999-8759
*6	0	1942-6800	515-0047	998-4925	36	3	2671-9762	198-9030	999-1684
7	2	5881-9867	797-7485	0.5227	*37	4	6272-6509	445-3552	998-4600
8	3	9482-6614	44-2007	999-8152	38	6	211-9575	728-0990	0-4911
9	4	3083-3360	290-6528	999-1077	39	0	3812-6322	974-5512	999-7836
*10	5	6684-0107	537-1050	998-4001	40	1	7413-3069	221-0034	999-0760
11	0	623-3174	819-8488	0-4303	*41	2	1013-9815	467-4555	998-3685
12	1	4223-9921	66-3010	999-7228	42	4	4953-2882	750-1994	0.3987
*13	2	7824-6667	312-7532	999-0153	43	5	8553-9629	996-6515	999-6912
14	4	1763-9734	595-4970	1-0455	*44	6	2154-6376	243-1037	998-9836
15	5	5364-6481	841-9492	0.3379	45	1	6093-9442	525-8475	1-0158
16	6	8965-3227	88-4013	999-6304	46	2	9694-6189	772-2997	0.3063
*17	0	2565-9974	334-8535	998-9229	47	3	3295-2936	18-7519	999-5988
18	2	6505-3041	617-5973	0.9531	*48	4	6895-9682	265-2040	998-8912
19	3	105-9788	864-0495	0.2455	49	6	835-2749	547-9479	0-9214
20	4	3706-6534	110-5017	999-5380	50	0	4435-9496	794-4000	0.2139
*21	5	7307-3281	356-9539	998-8305	51	1	8036-6243	40-8522	999-5064
22	0	1246-6348	639-6977	0-8607	*52	2	1637-2989	287-3044	998-7988
23	1	4847-3094	886-1499	0.1531	53	4	5576-6056	570-0482	0-8290
24	2	8447-9841	132-6020	999-4456	54	5	9177-2803	816-5004	0-1215
*25	3	2048-6588	379-0542	993-7381	55	6	2777-9549	62-9526	999-4140
20	5	5987-9655	661-7980	0-7683	*56	0	6378-6296	309-4647	998-7064
27	6	9588-6401	908-2502	0.0607	57	2	317-9363	592-1485	0-7366
-28	0	3189-3148	154-7024	999-3532	58	3	3918-6110	838-6007	0.0291
•29	1	6789-9895	401-1545	998-6457	50	4	7519-2856	85-0529	999-3216

TABLE LXXXVIII.

TABLE LXXXVII-Contd.

Values of "a", "b", "c" per day from Mina 1 to Mesha 2, the day of mean Mesha-samkeanti.

Zear.	Week-	a	ь	c	No. of days interval from 0 Mesha.	Mont	ch.	Week-	500	b	c
-	200				Par de	and da		day.	4		
*07	5	1119-9603	331-5051	998-6140	Net.	S. C. S. L. S. S. S. S. S. S. S. S. S. S. S. S. S.					
*60 61	0	5059-2670	614-2489	0:6442	N. 20						-
62	1	8659-9416	860-7011	999-9367		4		0	4	5	6
63	2	2260-6163	107-1532	999-2292	1	2		3	*		
*64	3	5861-2910	353-6054	998-5216				1.2			
	11 2	0000 0000	636-3492	0.5518	29	Mina	1	4	9502-4085	874-9589	915-1286
65	5	9800-5977 3401-2723	882-8014	999-8443	28	**	2	- 5	9841-0404	911-2506 947-5422	917-8664 920-6042
66	6	7001-9470	129-2536	999-1368	27	**	3	6	179-6724 518-3044	983-8339	923-3419
67 *68	1	602-6217	375-7057	998-4292	26	22	4	0	856-9364	20-1255	926-0797
69	ŝ	4541-9283	658-4496	0-4594	25	"	5	1	900-900E	20 1200	
	- 27	0140.0000	904-9017	999-7519						FC 4150	928-8175
70	4	8142-6030 1743-2777	151-3539	999-0444	24	- 99	6	2	1195-5684	56-4172 92-7088	931-5553
*71 72	5	5682-5844	434-0977	1.0746	23	**	7	3	1534·2004 1872·8324	129-0005	934-2931
73	i	9283-2590	680-5499	0.3670	22	199	8	5	2211-4643	165-2921	937-0309
74	2	2883-9337	927-0021	999-6595	21	27	9	6	2556-0963	201-5838	939-7687
		CONTRACTOR OF THE PARTY OF THE	WAR THE REAL PROPERTY.	WAG DEGG	1 -						
*75	3	6484-6084	173-4542	998-9520 0-9822							The same
76	5	423-9159	456-1981	0.2746	_19	-	11	0	2888-7283	237-8754	942-5065
77	- 6	4024-5897	702-6502 949-1024	999-5671	18	200	12	1	3227-3603	274-1671	945-2442
78	0	7625-2644	195-5546	998-8596	17	111	13	2	3565-9923	310-4587	947-9820 950-7198
*79	1	1225-9391	100.0010		16 15		14 15	3 4	3904-6243 4243-2563	346-7504 383-0420	953-4576
80	3	5165-2457	478-2984	0-8898	10	199	-				
81	4	8765-9204	724-7506	0-1822					100	digi	
82		2366-5951	971-2027	999-4747	14	1000	16	5	4581-8882	419-3336	956-1954
*83		5967-2698	217-6549	998-7672	13	**	17	6	4920-5202	455-6253	958-9332
84	1	9906-5764	500-3987	0.7974	12	1	18	0	5259-1522	491-9169	961-6710
		1			111		19	1	5597-7842	528-2086	964-4088
-000	1000	0000 0011	746-8509	0-0898	10	44	20	2	5936-4162	564-5002	907-1465
85		3507-2511 7107-9258	993-3031	999-3823				1			111111111111111111111111111111111111111
*87		708-6004	239-7552	998-6748		T					
88		4647-9071	522-4991	0.7050		10/10	200	3	6275-0482	600-7919	969-8843
89		8248-5818	768-9512	999-9974	9		21	4	6613-6801	637-0835	972-6221
00			100		8 7	**	23	5	6952-3121	673-3752	975-3599
		- CONTROL NO.		000 0000	6	**	24	6	7290-9441	709-6668	978-0977
-90		1849-2565	15-4034	999-2899 998-5824	5	"	25	STATE OF THE PARTY	7629-5761	745-9585	980-8355
*91		5449-9311	261-8556 544-5994	0-6126	1	- "		100	Mark Comment		14
93		9389-2378	791-0516	999-9050		0		1			n
93		2989-9125 6590-5871	37-5038	999-1975	100	1	300		mana narr	#00 OFF	600 5000
9	. 0	0000-0011	47.4000	000000000000000000000000000000000000000	4	**	26		7968-2081	782-2501	983-5733
1	100	1 5		THE COLUMN	3	99	27 28		8306-8401 8645-4721	818-5418 854-8334	986-3111 989-0488
-9	5 0	191-2618	283-9559	998-4900		**	- Bro		8984-1040	891-1251	991-7866
9	M	4130-5685	566-6997	0-5202	1	**	40	1.0	0004-1040	001/1201	001.1000
9	7 3	7731-2431	813-1519	999-8126							
9	8 4	1331-9178	59-6041	999-1051				111	100	Total Total	
+9	9 5	4932-5925	306-0563	100.0010		Mes	ha 0	5	9322-7360	927-4167	994-5244
1		1000000				**	1	6	9661-3680	963-7084	997-2622
10	0 0	8871-8092	588-9001	0-4278		33	2		0	0	0,-

TABLE LXXXIX.

Sun's equation of the centre and sine-values according to the Brahma-Siddhanta.

ent.				SINE OF ANGLE			j	EQUATIO	ist.					
Serial No. of sine.	Sun's 1	MEAN AN	OM.	Value in minutes.	Diff.	Eq	luat	ion.	Difference per minute of anom.	Sus	's ME	IAN AN	OM.	Serial No. of sine.
1		2		3	4		5		6		7			1
	0 /	0	,		20	0	,			0	100	0	,	
0	0 (180	0	0	214	0	0	0	2.27	180	0	360	0	0
1	3 4	176	15	214	213	0	8	32-50	2-2760	183	45	356	15	1
2	7 30	172	30	427	211	0	17	2-61	2-2458	187	30	352	30	2
3	11 17	168	45	638	208	0	25	27-92	2-2128	191	15	348	45	3
4	15 (165	0	846	205	0.	33	46-05	2.1822	195	0	345	0	4
5	18 40	5 161	15	1051	200	0	41	57-02	2-1287	198	45	341	15	5
6	22 30	157	30	1251	195	0	49	55-97	2.0755	202	30	337	30	6
7	26 10	153	45	1446	189	.0	57	42.97	2.0117	206	1.5	333	45	7
8	30 (150	0	1635	182	1	5	15-60	1.9372	210	0	330	0	8
9	33 43	146	15	1817	174	1	12	31-46	1.8520	213	45	326	15	9
10	37 30	142	30	1991	165	10	19	28-17	1-7562	217	30	322	30	10
11	41 18	138	45	2156	156	1:	26	3-32	1-6604	221	15	318	45	11
12	45 (135	0	2312	147	1	32	16-92	1-5646	225	0	315	0	12
13	48 48	131	15	2459	135	1	38	8-96	1-4369	228	45	311	15	13 *
14	52 30	127	30	2594	125	1	43	32-27	1-3305	232	30	307	30	14
15	56 13	123	45	2719	113	1	48	31-62	1-2028	236	15	303	45	15
16	60 (120	0	2832	101	1	53	2.24	1-0750	240	0	300	0	16
17	63 43	C Charles	15	2933	88	1	57	4.12	0-9367	243	45	296	15	17
18	67 30	112	30	3021	75	2	0	34-87	0-7982	247	30	292	30	18
19	71 15	108	45	3096	63	2	3	34-49	0-6706	251	15	288	45	19
20	75 (0	3159	48	5	6	5.36	0-5184	255	0	285	0	20
21	78 45		15	3207	35	2	8	1-99	0-3651	258	45	281	15	21
22	82 30	97	30	3242	21	2	9	24-14	0-2235	262	30"	277	30	22
23	86 15	93	45	3263	7	2	10	14-43	0-0745	266	15	273	45	23
24	90 0	90	0	3270		. 2	10	31-19		270	0	270	0	24

THE BRAHMA-SIDDHANTA OF BRAHMAGUPTA, A.D. 628.

WORKING TABLES FOR COMPUTATION OF ANCIENT DATES BY THE MEAN MOTIONS OF SUN AND MOON.

321. The Tables published in my last article enabled the dates of ancient Indian inscriptions and records to be verified according to the requirements of the Brahma-Siddhānta with, as basis of calculation, the "true" or apparent motions of sun and moon. This mode of reckoning appears to have been introduced in the 11th century A.D. But the Brahma-Siddhānta was composed in A.D. 628 and for at least four centuries after its appearance details for the calendar were almost certainly based on mean planetary motions; while it is believed that this mean system continued to guide the preparation of paūchāngs (almanacs) till a much later date—perhaps for several centuries in some parts of the country.

For the correct verification, therefore, of early dates it is necessary for historians to be provided with a set of Tables based on mean planetary motions and the postulates of the Brahma-Siddhānta in addition to those based on mean motions and the postulates of the Ārya-Siddhānta. The latter were provided in a previous article in this volume. The former are presented herewith. They cover a period of 800 years, from K.Y. 3700 to 4500, or from A.D. 599 to 1400.

The system of work is the same as in all my previous Tables, that is to say, it is the system of Largeteau as adopted by Professor H. Jacobi in the *Indian Antiquary*, Vol. VIII, and in the *Epigraphia Indica*, Vol. XI. Full examples shewing the method of work, which is very simple, are given in my former articles; others, specially concerning the system of mean reckoning on *Brahma-Siddhānta* principles, are given below.

In case of doubt as to which of the Tables already published should be used in the present case attention is directed to the accompanying § 330.

322. In examining the dates of records in earlier years it is necessary to remember that the modes of reckoning adopted were not always the same as those used in more recent years. As to eras, reference to articles 6-12 of my former work, Indian Chronography, is recommended. For other matters the late Dr. J. F. Fleet's remarks in the Journal of the Royal Asiatic Society for 1912, pp. 704-5, will be found very valuable.

Especially let it be borne in mind that the lunar month reckoning in early years was probably carried out on the pārņimānta system. According to the late Professor Kielhorn the earliest known date certainly in amānta reckoning belonged to the year A.D. 794. It is contained in the Paithān plates of the Rāshṭrakāṭa king Govinda III (Epig. Ind., III, 105; Ind. Ant., XVII, p. 142, No. 9). As regards these two systems, the amānta and pārṇimānta names of lunar months, see Indian Calendar, §§ 13, 45 (with Table on p. 26), 47, 51, and the late Sankara Balkrishna Dikshit's footnote on p. 31; also Indian Chronography, i§§ 75, 76, p. 31.

Elements of the Brahma-Siddhanta mean reckoning.

- 323. The principal elements are fully stated in my former article on this authority (above, p. 448, § 313). For calculation on the mean system the following notes are necessary.
- (i) The length of the mean sidereal solar year is 365^d 6^h 12^m 9^s, a fixture afterwards adopted by Bhāskarāchārya in his Siddhānta-Širōmani, A.D. 1150.

- (ii) The advance of "a" (distance of mean moon from mean sun)—which finally fixes the index of the tithi (30th of a mean lunation) in measurement by 10,000ths of circle—in every civil day of 24 hours and in hours, minutes and seconds, is given for the Siddhanta-Sirōmani in Tables LIV-A and B above, pp. 148, 152. These Tables are applicable to the Brahma-Siddhānta.
- (iii) For the sun's mean motion per day, hour, minute, etc., see Tables XLIII and XLIV above pp. 59, 60.
 - (iv) The advance of a in one mean solar month is, in 10,000ths of circle, 307:349156595.
- (v) Each solar month consists of 30^d 10^h 31^m 0*75. Table XCI below shews the interval of days, hours, etc., between the moment of mean Masha-samkrānti, when the mean sun is at celestial long, 0° (Table XC, cols. 13-17), and the moment of each subsequent samkrānti when the mean sun enters each of the twelve signs; and so enables the day and time when each mean solar month begins to be ascertained. The same Table gives the advance of "a" from its value at the moment of mean Mēsha-samkrānti to the same at each subsequent samkrānti.
- (vi) The interval between the moments of true and mean Mēsha-samkrānti, i.e. between the moments of the astronomical beginning respectively of the true and mean solar year, which interval we call the \$\delta \text{d} \text{h} yar, varies slightly year by year in consequence of the postulated shift of the sun's apsis (\§ 313, VII, above p. 449). The exact intervals, century by century from K.Y. 3700 to 4300, were given above in \§ 315. The Table is here repeated and extended so as to embrace the whole period of the general Table XC below. The quantities were computed by Dr. Robert Schram.

. TABLE .

VALUE OF \$\overline{s}\overline{\sigma}\days as the Brahma-Siddhanta.

1 1	200	Harry .		Sodity	A AT BEGINNING	OF CENTURIES.
Kaliyuga.	A.D.	D.	н.	М.	S.	Days and decimals.
3700	599-600	2	4	8	59-8128	2.1729145
3800	699-700	2	4	9 .	2.0160	2.1729400
3900	799-800	2	4	9	4.2192	2-1729655
4000	899-900	2	4	9	6.4224	2.1729910
4100	999-1000	2	4	9	8.6256	2.1730165
4200	1099-1100	2	4	9	10-8288	2.1730420
4300	1199-1200	2	4	0	13.0320	2-1730675
4400	1299-1300	2	4	9	15-2352	2:1730930
4500	1399-1400	2	4	9	17-4384	2-1731195

The moment of mean Mesha-samkranti, or the beginning of the mean solar year.

324. The general Table which follows states (Table XC, cols, 13-17) the moment of beginning of each mean solar year according to the Brahma-Siddhānta. The first entry is for the expired year 3700 of the Kaliyuga (A.D. 599-600), in which year the astronomical beginning is fixed as at 5h 15m after mean sunrise on Saturday, 21 March, A.D. 599. It is incumbent on me to prove the correctness of this fixture. Subsequent entries are based on it by the addition to it year by year of 365m 6h 12m 9m. Proof may be offered in three ways:—(A) by comparison with the date and time already found for the beginning of the true solar year K.Y. 3700, utilizing Dr. Schram's determination of the interval between the two occurrences; (B) by comparison with the date and time fixed for the beginning of the same mean solar year according to the First Ārya-Siddhānta, allowing for the time-difference between the two authorities caused by their different estimate as to the length of the mean solar year, viz. 21m; (C) by direct computation from the moment of mean Mēsha-sankrānti, at the beginning of the Kaliyuga cra, 3,700 years earlier, which, according to the Brahma-Siddhānta (§ 313, v. above, p. 449), was exactly at mean sunrise, or 0h 0m 0m Lankâ time, on Friday, 18 Febr. (B.C. 3102).

A	* 5 5
Moment of true Mesha-sankenati in K	h. m. s.
Moment of true Mēsha-sankrānti in K. Y. 3700 (A.D. 599) (Table LXXXII, above.) (5) Thur., 19 Mar.	1 6 0.1872
Sodhya as above (§ 323, Table) + (2) 2	4 8 59 8128
Moment of mean Mesha-sankraati . (0) Sat., 21 Mar.	5 15 0
В	
[See Indian Calondar, Table I, cols. 13-17, for A.D. 599-	600.T
	h. m. a.
True Mēsha-sankrānti by Ārya-	
	. 23 17 30
Ārya-Siddhānta šōdhya +(2) 2	3 32 30
Mean Mêshn-sankrauti by Arya-	V I III
Siddhānta (1) Suu., 22 Ma	r. 250 0
Less Time-difference in 3,700 years!	-21 35 0
Mean Mesha-samkranti by Brahma-	
Siddhānta (0) Set., 21 Ma	r 5 15 (
3	

The epoch of the Kaliyuga was, as stated above 0^h 0^m 0^s Lankā time, or exactly at mean sunrise on Friday 18 Feb. B.C. 3102. The length of the mean solar year being 365^d 6^h 12^m 9^s, the beginning of the next mean solar year took place 6^h 12^m 9^s after mean sunrise; and after the expiration of a century from the epoch the mean solar year began at 20^h 15^m 0^s after mean sunrise; so that after 37 centuries had passed the mean solar year K.Y. 3700 began at 5^h 15^m 0^s after mean sunrise.

When this latter calculation is carried out century by century, the figures show that centuries 6, 12, 19, 25 and 32, five in all, were defective centuries consisting each of 36,525 days, the remainder being common centuries of 36,526 days. Since 36,526 divided by 7 leaves no

¹ See Table, § 273, in Article on the Siddhānta-Śirōmani (above, p. 133), which is equally applicable to the 3rahma-Siddhānta; or refer to Indian Chronography, p. 61. The time-difference in 3,000 years is 17* 80°, in 00 years 4^h 5°, total 21^h 35°.

remainder and 36,525 divided by 7 leaves remainder 6, the results shew that whereas century 0 began on a Friday, century 37 began on a Saturday.

Table XC therefore, as regards the moment of mean Měsha-sankrānti in K.Y. 3700 expired, A.D. 599-600, is proved to be correct.

The beginning of the mean luni-solar year. Amanta system.

325. In § 317 of my article on the Brahma-Siddhānta as calculated by the true motions of the sun and moon (above, p. 451) it will be seen that the value of "a" at mean sunrise of Sunday, 22 March, A.D. 599 (K.Y. 3700) was proved to be, in measurement by 10,000ths of a circle, 6567-108945284. The mean solar century, however, began on the previous day, Saturday, 21 March. Deducting one day's value of a, viz. 338-631985412, from the above, we find that at mean sunrise of that Saturday the value of a, or the mean moon's distance from mean san, was 6228-476959872. This was its value at the beginning of the 37th century K.Y. Hence the first entry in Table XCII below which gives the values at mean sunrise on the day on which each century began. The remaining figures in that Table were obtained by the addition to this value of the increase of "a" in a century. [See § 316 of the my article on the Brahma-Siddhānta "true" System, above, p. 450. The increase of a in a century of 36,525 days is 997-678896964, and in a common century of 36,526 days is 0416684507.] Centuries 38 and 44 were defective centuries; the rest were common ones. For the beginnings of the odd years of centuries Table LXXXVII above, p. 509 was used, the value of "a" there given being added to that for the century.

Thus was determined the value of "a" at mean sunrise of the day on which each mean solar year begins (see Example 1 below). From this is found the value of "a" at mean sunrise of the day on which the mean luni-solar year begins.

326. The first day of the luni-solar year is, according to the general rule, the civil day on which expired the first tithi of the bright half (sukla) of the amanta lunar month Chaitra, i.e. the tithi which begins at the moment of the first new moon after the Mina-sankranti, or at the moment of the new moon when that amanta lunar month begins within the limits of which the Mesha-sankranti occurs. Having already established the value of "a" on the day in any year on which mean Mesha-sankranti occurred, we have to subtract from that value the increase of "a" in whole days between the two dates, the day on which the luni-solar year began being the earlier. The first 30 days' entries in Table LIVA (above, p. 148) enable this to be done. We select in that Table the "a" in col. 3 the value of which is next lower than the "a" of mean Mesha-sankranti, and the Table then shews in col. 1 the number of intervening days, and therefrom the European day and month, and, by subtraction, also (col. 2), the week-day. Deducting the selected "a" from the "a" of mean Mesha-sankranti, we have the "a" of mean sunrise of the day, Chaitra śukla 1, on which the luni-solar year begins.

Thus,—mean Měsha-samkrānti of the year K.Y. 3700, A.D. 599-600, was shewn above to have occurred on (0) Saturday, 21 March A.D. 599, at mean sunrise on which day the mean moon's tithi-index a was 6228-4770. In Table LIVA, amongst the values of "a" in the first 30 days, it is seen that the next lower value is 6095-3757. 6228-4770—6095-3757=133-10131. Col. 1 shews that the interval of days was 18, and col. 2 shews the week-day 4. Mean Mēsha-samkrānti occurred on (0) Saturday. 0 (or 7)—4=3 Tuesday. It is therefore found that the day Chaitra śakla 1, the first civil day of the mean luni-solar year, was (3) Tuesday, 3 March A.D. 599, and that the value of "a" at mean sunrise on that day was 133-1013, shewing the currency of the tithi śakla 1. This is the entry in Table XC below.

It comes to the same thing if the "a" of Table XCIII below is added to the "a" of mean Mēsha-samkrānti, the Table being prepared for that purpose. The "a" of mean Mésha-

¹ All values of a below 333'3 prove the tithi to have been the first of the amouta lunar month, or the first tithi of the first (fukla) fortnight.

samkrānti was 6228·4770. We select such a value of "a" in col. 3 of that Table as, added to the former, makes a value between 0 and 333·3, the limits of the tithi šukla 1; and note the interval of days, and the week-day resulting by addition of the given week-day (col. 2) to the week-day of mean Mēsha-samkrānti. Here the selected value of "a" is 3904·6243, since 6228·4770+3904·6243=133·1013. The interval of days is 18 (col. 1). The week-day corresponding to the day Chaitra šukla 1 is (0+3=) 3. The result is the same as obtained by the former process.

All the entries in the general Table XC, cols. 19-23, can be proved in this way.

To find the exact phase of the mean moon, i.e. the mean tithi-index "a", on any day of any year, or at any particular moment of any day, it is only necessary to add to the value of "a" given in col. 23 of Table XC for the first day of the luni-solar year the amount of increase of "a" during the intervening whole days, hours, etc., given in Tables LIVA and B above, pp. 148, 152.

The purnimanta system of lunar months.

327. The amānta lunar month begins at the moment of new moon, the pūrnimānta month at the moment of full moon a fortnight earlier; so that the fortnight (sukla) between new moon and full moon bears the same month-name by both systems, while the fortnight (krishna) between full moon and new moon bears, in the pūrnimānta system, the name of the lunar month next after that which it bears in the amānta system. The sukla fortnight of the first lunar month, for instance, belongs to Chaitra by both systems. The following krishna fortnight, however, belongs to Chaitra by the amānta system, but to Vaišākha by the pūrnimānta system.

This should always be borne in mind when examining dates of inscriptions, especially in earlier years. For references to already published explanations see § 322 above, and for a Table of corresponding fortnights and lunar months see *Indian Calendar*, Table II, Part I.

The mean moon's nakshafra.

328. The note on this subject already given (§ 308, p. 362) in dealing with calculation by the First Arya-Siddhānta mean system applies equally to the Bruhma-Siddhānta mean system. It is unnecessary to repeat it.

Tables LXXX and LXXXI, (pp. 444, 446), fixing the sun's mean longitude for every day of the mean solar year according to the First Ārya-Siddhānta, may safely be used for general calculation by the Brahma-Siddhānta, since the difference between the two authorities in their estimates of the length of the year only amounts to 21 seconds. But in any exceptionally close case the exact value, at mean sunrise of any day in the year of "s", or the sun's mean longitude, can be found by multiplying the sun's mean motion i one day (Table XLIII, p. 59), by the number of days' interval between the day on which mean Mēsha-samkrānti occurred and the given day. The sun's mean motion in one day by the Brahma-Siddhānta is 59 8172655, or in 10,000ths of circle 27:377875426.

The Rule for work is as follows. (i) Find, as above, value of "a" at mean surrise of given day. (ii) Note number of whole days intervening between the day of mean Mesha-sankranti (Table XC below, col. 13, figure in brackets) and the given day. Turn to Table LXXX and note the increase of sun's mean long., "s", during that interval. Deduct from this, by Table LXXXI, the increase of long, during the hours and minutes stated in col. 17 of Table XC. The result is the sun's mean long., "s", at mean sunrise of given day. (iii) Add s to o. This = "n", the required index of the mean nakshatra, or the mean moon's place in the heavens at that moment. Table LXVIII above, p. 350 or Table VIII, Indian Calendar, will show in which nakshatra the mean moon stood at the time.

In measurement by 10,000ths of circle the total difference in 365 days is 0.00805, by which amount the Brahma-Siddhanta is the greater.

The 19-year intercalation cycle.

329. [See Indian Calendar, § 50, p. 29, and notes in previous articles above on the working of the cycle by different systems.] The sequence in the present case works perfectly regularly except in four instances. In every case except these, after four successive intercalations of the same lunar month at intervals of 19 years each, the intercalated month gives way to the month next preceding it. The exceptions are—a run of five mean intercalary Bhādrapadas between A.D. 746 and 822, five Āśvinas between 952 and 1009, five Kārttikas between 1120 and 1196, and five Paushas between 1231 and 1307.

Working Tables.

330. For general guidance the following Tables, as given for work by the Arya-Siddhānta (above), should be used, or the similar Tables published in the Indian Calendar.

Table LXII, or Ind. Cal., Table II, Parts I and II, for names of months and nakshatras.
Table LXIIIA, or Ind. Cal., Table III, Part I, for collective duration of mean lunar months.

Table LXVIII, or Ind. Cal., Table VIII, for indices of tithis, karanas, nakshatras and yōgas.

Table LXIX, or Ind. Cal., Table IX, for the serial number of days of the year and their names and numbers in European reckoning.

Table LXX, or Ind. Cal., Table X, for conversion of the indices of tithis, nakshatras and yōgas into time.

Table LXXI, the European Calendar for 23 centuries. [Table XIII, Indian Calendar, may also be used, but the former is easier.]

Table XCI below gives the collective duration of mean solar months, measured from the moment of mean Mēsha-sankrānti, the astronomical beginning of the mean solar year; also the increase of "a", the mean tithi-index, during the interval.

Table XCII shows the value of "a" at the beginning of each mean solar century of the Kaliyuga, that is to say, its value at mean sunrise of the day on which each such solar century began.

For odd years of such centuries Table LXXXVII (above, p. 509) is to be used in conjunction with Table XCII, addition of the two given values of "a" yielding the value of "a" at mean sunrise of the day on which each mean year of the Kaliyaga solar century began.

For increase of "a" in subsequent days, hours, etc., in any K.Y. year, or any moment of any day Tables LIVA and B (above) are to be used.

The use of Table XCIII is explained in § 326 above.

Table XCIV-A to F enables the units and decimals of units of results obtained from our system of reckoning in measurement by 10,000ths of a circle, to be converted readily into time, if required. The same can be converted into space-measurement in degrees, etc., by Table XLV-B above.

EXAMPLES.

[N.B.—Work may always be done in whole numbers, resorting to decimals only in close cases.]

Example 1. To find the mean tithi-index, or phase of moon, at mean sunrise of the day on which mean Metha-samkranti occurred in any year.

This is a necessary operation for finding the tital-index "a" at the moment of mean Meshasamkranti, which is obtained by addition of the "a" of subsequent hours, minutes, etc., to the a

of mean sunrise. [The intercalation of lunar months is decided by the value of "a" at the moment of mean Měsha-samkrānti.] Two cases are considered, A and B.

A. Take the year Kaliyaga 3851 expired. This was Saka expired 672. It began (Table XC, cols. 13-17) astronomically at 5^h 49^m 39^s after mean sunrise on Sunday, 22 March A.D. 750. We want to know the mean moon's phase, as shewn by the tithi-index "a", at mean sunrise of that day. ["w.-d."=week-day.]

(Table XCII.) At beginning of K.Y. Century 38, mean sunrise (0) 5100-3761 (Table LXXXVII.) At beginning of K.Y. year 51, mean sunrise (1) 8036-6243

At mean sunrise on the Sunday in question "a" = . . (1) 3137.0004

The moon was then (Table VIII or LXVIII, p. 350 above, col. 3) about 10 days old.

B. The year K.Y. 3849. Saka 670 both expired. This began (Table XC) at 17^h 25^m 21st after mean surrise on Thursday, 21 March A.D. 748. The first result shews the "a" for mean surrise on Friday, 22 March, and the "a" for one day has to be deducted. This is due to the fact that Table LXXXVII has to serve for all K.Y. centuries, common or defective. The correction required is never more than that for one day.

Example 2. To find the civil day corresponding to Chaitra sukla 1, or the first civil day of the luni-solar year; and the value of "a" (place of mean moon) at mean sunrise thereon.

The civil day corresponding to mean Chaitra fukla 1 is that on which the mean tithi " śukla 1" expired. The tithi-index (a=) 333-3 marks the last instant of the first śukla tithi, so that we have to find a day on which at mean sunrise the tithi-index "a" was between 0 and 333-3. The amānta lunar month called "Chaitra" begins with the first new moon after the Mīna-samkrānti, and the civil day called "Chaitra śukla 1" is necessarily earlier than the day on which mean Mēsha-samkrānti occurred. We have to find the number of days' interval between these two days. There are two ways of ascertaining these points, one by using Table XCIII (p. 591 below) and adding its figures, one by using Table LIVA (p. 148 above) and subtracting its figures.

(i) Take the year in Example 1, A, above. The value of "a" at mean sunrise of Sunday, 22 March A.D. 750, was found to be 3137 0004. We turn to Table XCIII and select in col. 3 such a value of "a" as, added to 3137 0004, will result in a total value of "a" between 0 and 333.3. This is found to be 6952 3121, the sum of the two (always disregarding quantities over 10,000) being 89 3125. The interval of whole days from mean Mēsha-sankrānti day was 9 (col. 1). Adding the number of the week-day (col. 2), viz. 5, to the week-day of mean Mēsha-sankrānti, viz. 1 Sunday, we have the week-day 6 Friday. Mean Mēsha-sankrānti occurred on Sunday, 22 March; and, therefore, it has been determined that the day Chaitra inkla 1, the first day of the luni-solar year, was Friday, 13 March A.D. 750, on which day, "a" being 89 3125. Chaitra inkla 1 was the current tithi at mean sunrise.

Similarly in Example 1, B. At mean sunrise of (5) Thursday, 21 March A.D. 748, "a" was 5597-0190. Add (Table XCIII col. 3) 4591-8882. Result 178-9072. The interval of days was

(col. I) 16. The week-day number was 5. The week-day of 21 March was 5 (Thursday). Hence the week-day 16 days earlier was 5+5=3 Tuesday. So the beginning of the mean lunisolar year was on Tuesday, 5 March A.D. 748, on which date at mean sunrise the mean tithi inkla 1 was current, the value of "a" at that moment being 178:9072.

The entries in Table XC against these years correspond to these results.

(ii) The same results are obtained by using Table LIVA above, and deducting the figures for the interval of whole days between the two occurrences. We note that value of "a" in the first 30 days of that Table which is next lower than the value of "a" already found for the day of mean Mesha-sankrānti, and deduct the former from the latter. The number of intervening days (col. 1) and the number of week-days (col. 2) stand against the selected entry. This week-day number is deducted, of course, from the week-day of mean Mesha-sankrānti. Thus—

The interval of days (col. I) was nine. 6=Friday. Hence the day corresponding to Chaitra fukla 1 was Friday, 13 March, and at mean sunrise the mean tithi Chaitra fukla 1 was current, the value of "a" being 89-3125.

B. For K.Y. 3849, A.D. 748.

(Example 1, B.) At mean sunrise on Thursday, 21 March, (5) 5597·0190
A.D. 748.
(Table LIVA.) Next lower value of a, and week-day .-(2) -5418·1118

At mean sunrise of the day Chaitra śukla 1 . . . (3) 178-9072

The interval of days was 16. 3=Tuesday. Hence the day corresponding to Chaitra śukla 1 was Tuesday, 5 March A.D. 748, and at mean sunrise the value of a was 178 9072.

These results are the same as those found by the former process. The examples enable any worker to prove the correctness of all my entries in cols. 19-23 of the general Table XC below.

Example 3. To find if a lunar month was or was not intercalated in the given year.

It will be enough, for this problem, to refer to Example 3 of my article (above) on the Arya-Siddhānta—mean system. The work here is precisely similar; but for the values of "a" for hours and minutes Table LIVB should be used, and Table XCI for the advance of "a" during the mean solar months, etc.

Example 4. To find the mean tithi-index "a", shewing phase of moon, at mean sunrise of any day in the year; or at any moment of any day.

Table XC (cols. 19-23) gives the civil day corresponding to mean Chaitra śukla 1 (the initial day of the mean luni-solar year), its serial number (in brackets) from January 1st of the equivalent A.D year, and the mean tithi-index a at mean sunrise. Calculate by Table III, Indian Calendar, or by Table LXIIIA (above,) the interval of whole days from that day to the given day, and, if necessary, the excess of hours, minutes, etc., to the given moment on that day. Add the increment of "a" for the interval of whole days from Table LIV-A and for fractions of days from Table LIV-B to the "a", as above, of the initial day; as also the number of days' interval and the corresponding week-lay

E.g. Required the tithi-index at mean sunrise of the day called "Ashāḍha tukla 4" in Saka 547 expired, or A.D. 625-26, and the corresponding A.D. day and week-day.

In this year there was no intercalated month. The interval from the day "Chaitra śuklu 1" day to the day "Āshāḍha śuklu 4" is approximately (Table LXIII-A above, p. 335) 93 days. We try this—

	d. (74) +(93)	10d. (6) (2)	a. 184:6506 1492:7746
This value of "a" (Table LXVIII) shews that the 6th fukla tithi was current at mean	(167)	(1)	1677-4252
	-(2)	-(2)	-677·2640
At mean sunrise on Åshådha šukla 4	(165)	(6)	1000-1612

Table LXVIII or VIII Indian Calendar, shews the currency of the 4th śukla tithi, at that mean sunrise, since its first point is when a=1,000. Day 165 was (Table IX, Indian Calendar, or LXIX, above) 14th June A.D. 625. 6=Friday. We learn, however, that the 4th mean tithi had begun only about \(\frac{1}{4} \) of a minute before the moment of mean sunrise; so that if the basis of calculation had been the moment of true sunrise (a little earlier than mean sunrise) the corresponding day might have been Thursday, 13 June.

Example 5. To find the nakshatra, or place in the heavens of the mean moon, at mean sunrise of any day or of any later moment in the day.

Take the case in the last example. It is required to find the value of "a". the nakshatraindex, at mean sunrise of the day called, in the mean system, "Ashāḍha śukla 4" in the given year, A.D. 625.

The mean tithi-index, "a", at that mean sunrise was found to be 1000·1612. Since s+a=n (§ 327 above), we have to ascertain the value of "s", the sun's mean longitude at that moment.

The day, 14 June, was the 165th day after Jan. 1 in that year. Mean Mcsha-samkrānti had taken place on (Table XC, cols. 13-17) the 79th day at 22^h 30^m 54^s after mean sunrise. The day 14 June was (165-79) 86 days later. We proceed as follows:—

									8.
Table LXXX, p. 444.	Interv	al of	86 day	8	0	(4)			2354-4957
Less (Table LXXXI)	for 22h	140				19	25.0	964	
	30m						0.5	704	
	54		40		7		0.0	171	
							25.6	839	-25.6839
At mean sunrise on the	don Ashi	dha	do Ida A	i i		Janes	11 - 27		9900:0110
	The state of the s					No. of Contract	, " 8	7	2328-8118
Add "a" as already fou	nd for th	int n	noment	0	*				1000-1612
At mean sunrise on that	day "n	=	(4)	A.				100	3328-9730

This last is the required nakshatra-index. Reference to Table VIII, Indian Calendar, or Table LXVIII above shews that the moon was then in the nakshatra Aślesha by the

equal space system of division of the ecliptic, which ended when "n" =3333.3; but that by the system of Garga or the Brahma-Siddhānta (our present authority) she was in Maghā, of which the ending points are respectively 3518.5 and 3477.1. Converted into degrees (Table VIII-B. Indian Calendar, or Table XLV-B, above) the moon at that mean sunrise stood at about 119°51'.

For the value of "n" at any later hour of the given day the index-value for the time since mean sunrise must be added (Table LXXXI) to the "n" of mean sunrise. At about 3 hours 50 min. after mean sunrise, for instance, the mean moon entered Maghā by the equal-space system; for the beginning point of that nakshatra is 3333.3. The increase of "n" in 3 hours 50 min. is 4.3728, and 3328.9730+4.3728=3333.3458.

Example 6. To find the yoga, "y", at the same moment as in Example 5.

The formula for finding the $y\bar{o}ga$ -index is either s+n="y", the $y\bar{o}ga$ -index; or, in cases where it is not necessary to calculate n (the nakshatra), 2"s"+a="y". Here, at mean sunrise on 14 June A.D. 625, we have found "s"=2328·8118 and "n"=3328·9730. The $y\bar{o}ga$ -index, "y", therefore, =5657·7848; and reference to Table VIII, Indian Calendar, cols. 12-13, or Table LXVIII (above, cols. 6, 8, 9, 10), shews that the mean moon was at that moment in the $y\bar{o}ga$ Siddhi. Again $2s=4657\cdot6236$, and this +a, which was found to be $1000\cdot1612=5657\cdot7848$, the same as before.

TABLE XC.

REMARKS.

K.Y. 3736 expired, A.D. 635-36. A very close case in the matter of intercalation of lunar month. Mean new moon occurred about 2^m after the moment of the Karka-samkrānti (mean sun at long. 90°), and, therefore, at that moment the mean moon was waning, while she was waxing at the next, Simha-samkrānti (mean sun at 120°). Accordingly the intercalated month was Śravana.

K.Y. 3923 expired, A.D. 822-23. According to the 19-year sequence of intercalations the same month is generally intercalated four times running, i.e. at intervals of 19 years each. Here, however, is an instance of a fifth intercalation of the same month [See § 329 of text above.]

K.Y. 4110 expired, A.D. 1009-10. A similar case. Asvina intercalate for the fifth time.

K.Y. 4297 expired, A.D. 1196-97. Another. Karttika intercalated for the fifth time.

K.Y. 4408 expired, A.D. 1307-08. Another. Pausha intercalated for the fifth time. This was a very close case. The moment of mean new moon was about 1 minute after the mean sun reached the Dhanus-samkrānti (mean sun at long. 240°), but she was actually waning at the moment of the samkrānti and was waxing at the next, Makara, samkrānti. Consequently the lunar month Pausha was intercalated.

TABLE

MEAN SYSTEM TABLE.

Numbers of columns conform

(Cols. 1 to 4.)—The years herein stated are the current years corresponding (Cols. 6 and 7.)—Samvatsara-names of mean solar years in italics show cases

		Krama.	r year in			JOVIAN SA	MVATSARA.	Mean intercalated (adhika) luns
Kali.	Saka.	Chaiteadi Vikrama.	Mëshadi solar Bengal.	Kollam.	A.D.	Southern system.	Northern system.	month.
1	2	8	3a	4	5	6	7	8a
3701	522	657	6		599-600	50 Ana	da .	
3702	523	658	7		*600-01	51 Pin	gala	2 Vaisakha
3703	524	659	8		601-02	1000-1-10	ayukta	
3704	525	660	9		602-03	53 Side	dhàrthin	10 Pansha
3705	526	661	10		603-04	54 Rat	adra	1
3706	527	662	11		*604-05	55 Du	rmati	
3707	528	663	12		605-06	56 Da	ndubhi	7 Aśvina
3708	529	664	13		606-07	57 Ru	dhirödgārin .	
3700	530	665	14		607-08	58 Ra	ktāksha	
5710	531	666	15		*608-09	59 Kr	ödhana	3 Jyéshtha
3711	532	667	16		609-10	60 Ks	haya	
3712	533	668	17		610-11	1 Pr	abhava	. 12 Phâlguna
3713	534	669	18		611-12	2 VI	bhava	340
3714	535	670	19		*612-13	3 Śu	kla	
3715	536	671	20		613-14	4 Pr	amôda	8 Karttika
3716	537	672	21		614-15	5 Pr	ajāpati	
3717	538	673	22		615-16	6 Ari	igims .	
3718	539	674	23		*616-17	7 Se	imukha	5 Stāvaņa
3719	540	675	24		617-18	8 Bh	iāva	-
3720	541	676	25		618-19	9 Y	nvan	

XC.

BRAHMA-SIDDHĀNTA.

to Table I, "Indian Calendar."

to the A.D. years in col. 5; as in Table I, "Indian Calendar."

where differences exist from Sürya-Siddhänta nomenclature in true solar years.

			C	ОММ	IEN(CEM	ENT OF THE			!	
M	EAN	SOLAR YEA	R.				MEAN LUNI-SOLAR I			Kali.	
Day and month,	1)	Week-day		Time of mean Mesha- sankranti.			Day and month, A.D.	Week-day.		a (here-t, the index of the tithi).	
13		14			17		19	20		23	1
21 Mar. (80) .		0 Sat.		H.	M. 15	S. 0	3 Mar, (62) .	3 Tues.		133-1013	3701
20 Mar. (80) .	٠,	1 Sun.		11	27	9	20 Feb. (51) .	0 Sat.		8.8241	3702
20 Mar. (79) .	٠,	2 Mon.		17	39	18	10 Mar. (69) .	6 Fri.	150	43-5065	3703
20 Mar. (79) .	17.	3 Tues.		23	51	27	28 Feb. (59) .	4 Wed.	34	257:8614	3704
21 Mar. (80) .	13	5 Thur.	909	6.	3	36	19 Mar. (78) .	3 Tues.	14	202-5437	3705
20 Mar. (80) .	6	6 Fri.	÷	12	15	45	7 Mar. (67) .	0 Sat.		168-2666	3706
20 Mar. (79) .		0 Sat.		18	27	54	24 Feb. (55) .	4 Wed.	:	43-3394	3707
21 Mar. (80) .	٠,	2 Mon.		0	40	3	15 Mar. (74) .	3 Tues.	-	78:6718	3708
21 Mar. (80) .	٠,	3 Tnes.		6	52	12	5 Mar. (64) .	1 Sun.	5.	293-0266	3706
20 Mar. (80) .	14	4 Wed.		13	4	21	22 Feb. (53) .	5 Thur.	×.	168-7494	3710
20 Mar. (79) .		5 Thur.	¥	19	16	30	12 Mar. (71) .	4 Wed.		203-4218	3711
21 Mar. (80) :	*	0 Sat.		1	28	39	1 Mar. (60) .	1 Sun.		79-1547	3711
21 Mar. (80) .	1	1 Sun.		7	40	48	20 Mar. (79) .	0 Sat.	-	113-8371	3715
20 Mar. (80) .	9	2 Mon.		13	52	57	9 Mar. (69) .	5 Thur.		328-1918	3714
20 Mar. (79) .	1. 107	3 Tues.	10	20	5	6	26 Feb. (57) .	2 Mon.	132	203-9147	3715
21 Mar. (80) .		5 Thur.		2	17	15	17 Mar. (76) .	1 Sun.	174	238-5972	3716
21 Mar. (80) .	-	6 Fri.	2	8	29	24	6 Mar. (65) .	5 Thur.	90	114-3199	3711
20 Mar. (80) .	1	0 Sat.	3.	14	41	33	24 Feb. (55) .	3 Tnes.		328-6747	3718
20 Mar. (79) .	34	1 Sun.	13	20	53	42	13 Mar. (72) .	1 Sun.	115	24-7252	3719
21 Mar. (80) .		3 Tues.		3	5	51	3 Mar. (62) .	6 Fri.		239-0801	37:K

				EENT YEA	CUI	CON				
Mean interculated (adhika) lunar month.		Norti syste	JOVIAN SAN	A.D.	n.	Kollam	Mëshadi solar year in Bengal.	Chaitradi Vikrama,	Šaka.	Kali.
8a		7	6	5		4	3a	3	2	1
1 Chaitra 10 Pansha		ra .	10 Dhā: 11 Iśva 12 Bah:	519-20 520-21 621-22			26 27 28	677 678 679	542 543 544	3721 3722 3723
		aāthin .	13 Pran	622-23			29	680	545	3724
6 Bhâdrapada	31		14 Vikr	623-24			30	681	546	3725
···	30 1	man was	16 Chita	624-25 625-26		16.5	31	682	547 548	3726 3727
-			17 Subl	626-27			33	684	549	3728
3 Jyështha	* *	ņa -	18 Tāra	627-28		100	34	685	550	3729
200 300		hiva .	19 Part	628-29		-	35	686	551	3730
11 Magha	100		20 Vyay	629-30			36	687	552	3731
		attennes in	21 Sarv	630-31		III T	37	688	553	3732
8 Kārttika		1	22 Sarv 23 Viro	631-32			38	689	554	3733
- ALL			24 Vikr	632-33		1 3	39	690	555	3734
			25 Kha	634-85			40	691	556	3735
5 Śrāvaņa §			26 Nan	635-36			42	693	558	3735
-		ya .	27 Vija	636-37			43	694	559	3738
***			28 Jaya	637-38			44	695	560	. 3739
1 Chaltra		matha	29 Man	638-39			45	696	561	3740
		nnkha	30 Dan	639-40		166	46	697	562	3741
10 Paneha		alamba	31 Hêm	640-41		-	47	698	563	4742
		nba .	32 Vila	641-42		-	48	699	564	3743
***			33 Vikā	642-43		- 4	49	700	565	3744
6 Bhadrapada		arin .	34 Sarv	643-44			50	701	566	3715

XC-contd.

	T	c	OM2	MEN	CEM	ENT OF THE			-
м	EAN (SOLAR YEAR.				MEAN LUNI-SOLAR Y		Kali.	
Day and mont	b,	Week-day.	mo	Time an Mi mkrä	čshu-	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).	
13		14		17		19	20	23	1
21 Mar. (80) .		4 Wed.	H.	M. 18	S. 0	20 Feb. (51)	3 Tues.	114.8028	3721
20 Mar. (80)	÷	5 Thur.	15	30	9	10 Mar. (70)	2 Mon.	1494852	3722
20 Mar. (79) .		6 Fri.	21	42	18	27 Feb. (58)	6 Fri.	25-2081	3723
21 Mar. (80) .		1 Sun	3	54	27	18 Mar. (77)	5 Thur	59-8904	3724
21 Mar. (80) .		2 Mon	10	6	36	8 Mar. (67)	3 Tues	274:2453	3725
20 Mar. (80) .	A.	3 Tues.	16	-18	45	25 Feb. (56)	0 Sat.	149-9682	3726
20 Mar. (79) .		4 Wod	22	30	54	15 Mar. (74)	6 Fri.	184-6506	3727
21 Mar. (80) .		6 Fri	4	43	3	4 Mar. (63) .	3 Tuos.	60-3734	3728
21 Mar. (80) .		0 Sat	10	55	12	22 Feb. (53)	1 Sun	274-7282	3729
20 Mar. (80) .		1 Sun	17	7	21	12 Mar. (72) .	0 Sat.	309-4106	3730
20 Mar. (79) .		2 Mon	22	19	30	1 Mar. (60) .	4 Wed	185-1334	3731
21 Mar. (80) .		4 Wed	5	31	39	20 Mar. (79) .	3 Tues.	219-8158	3732
21 Mar. (80) .	- 0	5 Thur	11	43	48	9 Mar. (68)	0 Sat	95-5387	3733
20 Mar. (80) .		6 Fri	17	55	57	27 Feb. (58) .	5 Thur	309-8935	3734
21 Mar. (80) .		1 Sun.	0	8	6	16 Mar. (75) .	3 Tues	5-9489	3735
21 Mar. (80) .		2 Mon	6	20	15	6 Mar. (65) .	1 Sun	220-2987	3736
21 Mar. (80) .		3 Tues	12	32	24	23 Feb. (54) .	5 Thur	96-0216	3737
20 Mar. (80) .	+	4 Wed	18	44	33	13 Mar. (73) .	4 Wed.	130-7040	3738
21 Mar. (80) .	-	6 Fri	0	56	42	2 Mar. (61)	1 Sun	6.4268	3739
21 Mar. (80) .		0 Sat.	7	8	51	20 Feb. (51) .	6 Fri	220-7816	3740
21 Mar. (80) .		1 Sun	13	21	0	11 Mar. (70) .	5 Thur	255-4640	3741
20 Mar. (80) .		2 Mon	19	33	9	28 Feb. (59) .	2 Mon	131-1868	3742
21 Mar. (80) .		4 Wed	1	45	18	18 Mar. (77) .	1 Son	165-8692	3743
21 Mar. (80) .	*	5 Thur	7	57	27	7 Mar. (66)	5 Thur	41-5921	3744
21 Mar. (80) .		6 Fri	24	9	36	25 Feb. (56)	3 Tues.	255-9470	3745

TABLE

1997					CONC	URRENT YE	Ali.	
	Kali.	Śaka.	Chaitradi Vikrama.	Mëshëdi solar year in Bengal.	Kollam,	A.D.	JOVIAN SAMVATSARA. Southern system. Northern system.	Mean interculated (adhika) lunar month.
	1	2	3	3a	4	5	6 7	8a
	3746 3747 3748	567 568 569	702 703 704	51 52 53		*644-45 645-46 646-47	35 Plava	
	3740	570	705	54		647-48	38 Krôdhin	
	3750	571	706	55		#648-49	39_Viávávasu † .	. 11 Māgha -
	3751	572	707	56	-	649-50	41 Plavaiga	
	3752	573	708	57		650-51	42 Kilaka , .	
	3753	574	700	58	133	651-52	43 Saumya	. 8 Kārttika .
	3754	575	710	59		*652-53	44 Sādhāraņa .	2 m
	3755	576	711	60		653-54	45 Virôdhakrit .	
	3756	577	712	61	- 17	654-55	46 Paridhāvin .	. 4 Āshādha .
	3757	578	713	62		655-56	47 Pramādin	
	3758	579	714	63	7.	*656-57	48 Ānanda	
	3759	580	715	61		657-58	49 Rākshasa	. 1 Chaitra .
	3760	581	716	65		658-59	50 Anala	72
	3761	582	717	66		659-60	51 Pingala	. 9 Mārgašira .
	3762	583	718	67		*660-61	52 Kālayukta	784
	3763	584	719	68		661-62	53 Siddhärthin .	70 7000
	3764	585	720	69	1	662-63	54 Randra	. 6 Bhādrapada .
	3765	586	721	70		663-64	55 Durmati	
	3766	587	722	The last		*664-65	56 Dandabhi	
	3767	588	723	7:	2	665-66	57 Rudhindgarin .	. 2 Valsākha .
	3768	580	724	73	3	666-67	58 Raktaksha	0-1-3-4
	3769	590	720			667-68	50 Krödhana	. 11 Magin .
	3770	591	72	7	5	*668-69	60 Kshaya	

† 40 Paribhava was suppressed, both in mean and true reckoning.

XC-contd.

			CC)MM	ENC	EME	ENT OF THE			
	MR	AN I	SOLAR YEAR.				MEAN LUNI-HOLAR X			Kali.
Day	and month,	Week-day.	Time of mean Mësha- samkranti.			Day and month, A.D.	Week-day.	a (here = t, the index of the fithi).		
	13	8	14		17		10	20	23	1
				H.	м.	S.	de de des			
	ir. (80)	10.7	0 Sat	20	21	45	15 Mar. (75) .	2 Mon	290-6293	374
	ir. (80)		2 Mon	3	33	54	4 Mar. (63)	6 Fri	166-3522	374
	ir. (80)	141	3 Tues.	8	46.	3	21 Feb. (52) .	3 Tues.	42-0750	374
	ar. (80)	(14)	4 Wed	14	58	12	12 Mar. (71) .	2 Mon 0 Sat	76-7573	374
	ar. (80) .	10	5 Thur	21	10	21	1 Mar. (61) .		201-1122	371
	it. (80) .	12	0 Sat.	3	22	30	90 Mar. (79) . 9 Mar. (68) .	6 Fri.	325-7946	37
	ir. (80)		1 Sun.	9	34	39		3 Tues.	Agreement the con-	37
	ir. (80)	1.6	2 Mon	15	46	48	26 Feb. (57)	0 Sat. 1	0.00	37:
	st (80) .		3 Tues	21	58	57	16 Mar. (76) .	0 Sat	DATE TO SERVICE STATE OF THE PARTY OF THE PA	371
	ar. (80)		5 Thur	4	11	6	6 Mar. (65) . 23 Feb. (54) .	4 Wed	326-2775	371
	ır. (80)	1	6 Fri	10	23	15		1 Sun	000.000	371
	ir. (80)	IF	0 Sat	16	35	24	14 Mar. (73) . 2 Mar. (62) .	CONTRACTOR OF THE PARTY OF THE	Service Manager	37.
	st. (80) .	1.70	1 Sun.	22	47	42			THE COURSE OF TH	37
	r. (80) -		3 Tues	4	59	51		le we	1000000	371
	ir. (80) .	*	4 Wed.	11	11		2000		CONTROL OF THE PARTY OF THE PAR	376
	Mr. (80) .	(E	5 Thur.	17	24	0	28 Feb. (59) . 18 Mar. (78)	5 Thur.		376
	it. (80) .	3	6 Fri	23			7 Mar. (66)	#1980000 0	1 PASSESSE 21	37
	ir. (80)	10	1 Sun .	5	48	18	24 Feb. (55) .	5 Thur.	- Common of the common of the	37
	sr. (80) .		2 Mon	1				2 24 2	23·2937 57·9761	37:
	sr. (80) .		3 Tues	1		45	4 Mar. (64)	00.42	1000000	37
	ar. (61)		5 Thur		36	54	21 Feb. (52)	a large	and the second	37
	ar. (80) .		Service Co.		49	3	12 Mar. (71) .	THE REAL PROPERTY.		376
	ar. (80)	5		1	1	12	1 Mar. 0501 .	The second second	584590	571
	ar. (81) .		1 Sun 3 Tues	1			19 Mar. (79)	1 Sun.	007410	370

11					CONCU	RRENT Y	SAR.		
	Kali.	Śaka.	Chaltradi Vikrama.	Meshadi solar year in Bongal,	Kollam.	A.D.	Jovian Sam Southern system.	Northern system.	Mean intercalated (adhika) lunar month.
	1	2	3	Sa	4	5	6	7	Sa
	3771 3772 3773 3774	592 593 594 595	727 728 729 730	76 77 78 79		669-70 670-71 671-72 *672-73	1 Prabl 2 Vibbs 3 Sukls 4 Pram	ava.	. 7 Aświna
	3775	596	731	80		673-74	5 Praji	ipati	. 4 Āshādha
	3776	597	732	81		674-75	6 Angi	ras	
	3777	598	733	82		675-76	7 Srim	ukha	. 200
	3778	599	734	83	146	#676-77	8 Hhāv	а	. 1 Chaitra
	3779	600	785	84		677-78	9 Ynve	MX	on:
	3780	601	736	85	11/1	678-79	10 Dhát	ri .	. 9 Märgašira
	3781	602	737	86		679-80	11 Iáva	ra	250
	3782	603	738	87	1	#680-81	12 Bahr	idhānya .	
	3783	604	789	88	1	681-82	13 Pran	náthiu	6 Bhādrapada
	3784	603	740	89		682-83	14 Vilo		S 1944
	3785	606	741	90		683-84	15 Vris	ha	S 744
	8786	607	742	91	100	*684-85	16 Chit	rabbānu .	. 2 Valšākba -
	3787	608	743	92	9	685-86	17 Sub	hānn	1999
	3788	609	744	93		686-87	18 Tar	ana	. 11 Magha
	3789	610	745	The same		687-88	19 Pär	thiva	
	3790	611	746	A COLOR		*688-80	20 Vy	iya	all the
	3791	612	747	7 96	8	689-90	21 Sar	vajit	. 7 Āśvina
	3792	-	1000	1		, 690-91	The state of the s	vadhārin .	
	8793	1	745			691-92	23 Vir	ödhin	
	2794	33.3		3		*692-93	24 Vik	rita	. 4 Åshådha .
	3795	61/	75	1 100		593-94	25 Kh	ATA	-
	-	-	-	-	-	-			

XC-contd.

		c	OMMEN	CEM	ENT OF THE				
Mea	N S	OLAR YEAR,			MEAN LUNI-SOLAR CIVIL DAY ON WHI				Kali.
Day and month,	8	Week-day.	Time o mean Mê samkrâ	sha-	Day and month, A.D.	Week-da	y.	a (here=t, the index of the tithi).	
13	Ī	14	17		19	20	Ī	23	1
			Н. М.	S.			7		
21 Mar. (80) .	ā	4 Wed	7 25	30	9 Mar. (68)	6 Fei.	Ŧ	307:4962	3771
21 Mar. (80) .	14	5 Thur	13 37	39	26 Feb. (57)	. 3 Tnes.	4	183-2190	3772
21 Mar. (80) .	28	6 Fri	19 49	48	17 Mar. (76)	2 Mon.		217:9015	3773
21 Mar. (81) .	z.	1 Sun	2 1	57	5 Mar. (65)	6 Fri.		93-6242	3774
21 Mar. (80) .	ě	2 Mon	8 14	6	23 Feb. (54)	. 4 Wed.	9.5	307-9791	3775
21 Mar. (80) .	14	3 Tues.	14 26	15	13 Mar. (72)	2 Mon.	-	4:0295	3776
21 Mar. (80) .	14	4 Wed	20 38	24	3 Mar. (62)	. 0 Sat.	-	218:3843	3777
21 Mar. (81) .	-54	6 Fri	2 50	33	20 Feb. (51)	4 Wed.		94-1071	3778
21 Mar. (80) .	131	0 Sat	9 2	42	10 Mar. (69)	. 3 Tues.	*	128-7896	3779
21 Mar. (80) .	10	1 Sun	15 14	51	27 Feb. (58)	. 0 Sat.		4.5124	3780
21 Mar. (80) .	2	2 Mon	21 27	(0)	18 Mar. (77)	6 Fri.		39-1947	3781
21 Mar. (81) .	3	4 Wed.	3 39	:9:	7 Mar. (67)	. 4 Wed.		253-5496	3782
21 Mar. (80) .	114	5 Thur	9 51	18	24 Feb. (55)	. 1 Sun.		129-2725	3788
21 Mar. (80) .	5	6 Fri	16 3	27	15 Mar. (74)	. 0 Sat.		163-9549	3784
21 Mar. (80) .		0 Sat	22 15	36	4 Mar. (63)	4 Wed.		39-6776	3785
21 Mar. (81) .		2 Mon	4 27	45	22 Feb. (53)	2 Mon.		254-0325	3786
21 Mar. (80)	24	3 Tues	10 39	54	12 Mar. (71)	. 1 Sun.		288-7149	3787
21 Mar. (80)	0 0	4 Wed.	16 52	3	1 Mar. (60)	5 Thur.		164-4377	3788
21 Mar. (80) .	1	5 Thur. * .	23 4	12	20 Mar. (79)	. 4 Wed.		199-1200	3789
21 Mar. (81) .		TENNY	2 40	21	Acces (1995)	. 1 Sun.		F4-0400	3790
21 Mar. (80) .			11 28	30	26 Feb. (57)	. 6 Fri.	į	000.1020	3791
21 Mar. (80) .				39	17 Mar. (76)	. 5 Thur.		200 0000	3792
21 Mar. (80) .			23 52		6 Mar. (65)	2 Mon.		100,0000	3793
21 Mar. (81) .	7	5 Thur.	6 4	57	23 Feb. (54)	6 Fri.		1000	3794
21 Mar. (80) .		6 Fri.	737 -SE		13 Mar. (72)	5 Thur.		1000000000	3795
# 1 MIN (2 (SM) 1		STATE OF SAME	12 11		10 Mar. (72)	A o Anne		110-0082	0,00

TABLE

				CONCU	BRENT Y	EAR.	My Inch		
1		krama.	solar year in	VII.		JOVIAN SA	MVATSARA.		Mean intercalated (adhika) lunar
Kali.	(Saka,	Chaitradi Vikrama.	Mëshadi sola Bengal.	Kollam.	A.D.	Southern system.	Northern system.		month.
1	2	3	3a	4	.5	6	7		8a
3796	617	752	101		694-95	26 Nat	dana		12 Phälguna
3797	618	753	102	411	695-96	27 Vije	iya .		
3798	619	754	103		*695-97	28 Jay			***
3799	620	755	104		697-98	29 Mar	amatha		9 Mārgašīra
3800	621	756	105	100	698-90	30 Du	mnkha	1	
3801	622	757	106		699-700	31 Hè	nalamba .	1	
3802	623	758	107		*700-01	32 Vib	amba		5 Śrāvaņa
3803	624	759	108		701-02	33 Vil	ārin		
3804	625	760	109		702-03	34 Šăr	varin		124
3805	626	761	110		703-04	85 Pla	NO		2 Vnišākha
8806	627	762	111		4704-05	36 Śu	bhakrit		
3807	628	763	112		705-06	37 Šāl	hana		10 Pausha
3808	629	764	113		706-07	38 Kr	ôdhin	1.5	
3809	630	765	114		707-08	39 Vi	śvāvasu	3	
3810	631	766	115		*708-09	40 Pa	rābbava	4	7 Aśvina
3811	682	767	116		709-10	41 Pl	avaiga		-
2812	683	768	117		710-11	42 K	laka		
3813	634	769	118		711-12	43 Sa	amya		4 Ashādha
381	635	770	119		*712-13	44 Si	dhāraņa		-
381	636	771	120		713-14	45 V	irödhakrit .		. 12 Phálguna
381	6 637	773	2 121		714-15	1	aridhāvin		
381	7 638	773	3 125		715-16		ramādin		
381	8 635	77			*716-17		nanda		. 9 Märgusira
381	9 646	77	5 12	4	717-18	49 R	läkshnen	- 0	-
883	641	1 77	6 12	5	718-19	50 A	mala		

XC-contd.

Mean	OLAR YEAR.		MEAN LUNI-SOLAR Y			
Day and mouth,	Week-day.	Time of mean Mësha- samkranti.	Day and month,	Week-day.	a (here=t, the index of the tithi).	Kall,
13	14	17	19	20	23	1
		H. M. S.				
1 Mar. (80)	0 Sat	18 29 15	3 Mar. (62) .	3 Tues, .	324-3631	379
2 Mar. (81)	2 Mon	0 41 24	21 Mar. (80) .	1 Sun	20.4135	379
1 Mar. (81)	3 Tues	6 53 33	10 Mar. (70)	6 Fri	234-7683	379
1 Mar. (80)	4 Wed	13 5 42	27 Feb. (58) .	3 Tues	1104911	379
1 Mar. (80)	5 Thur.	19 17 51	18 Mar. (77) .	2 Mon	145-1735	380
2 Mar. (81)	0 Sat.	1 30 0	7 Mar. (66) .	6 Fri	20/8963	380
1 Mar. (81)	1 Sun	7 42 9	25 Feb. (56) .	4 Wed. ,	235-2512	380
I Mar. (80)	2 Mon	13 54 18	15 Mar, (74) .	3 Tues	269-9330	380
1 Mar. (80)	3 Tues	20 6 27	4 Mar. (63) .	0 Sat	145-6564	380
2 Mar. (81)	5 Thur	2 18 36	21 Feb. (52) .	4 Wed.	21-3792	380
1 Mar, /80	6 Pri	8 30 45	11 Mar. (71) .	3 Tues	36-0616	380
1 Mar. (80)	0 Sat	14 42 54	1 Mar. (60) .	1 Sen	270-4164	380
1 Mar. (80)	1 Sun.	20 55 3	20 Mar. (79) .	0 Est	305-0988,	380
2 Mar. (81)	3 Tues	3 7 12	9 Mar. (68) .	4 Wed	180-8217	380
1 Mar. (81)	4 Wed	9 19 21	26 Feb. (57) .	1 Sun	56-5444	381
1 Mar. (80)	5 Thur	15 31 30	16 Mar. (75) .	0 Sat.	91-2269	281
1 Mar. (80)	8 Fri	21 43 39	6 Mar. (65) .	5 Thur	305-5817	381
2 Mar. (81)	1 Sun	3 55 48	23 Feb. (54)	2 Mon	181-2046	881
1 Mar. (81)	2 Mon	10 7 57	13 Mar. (73) .	1 San	215-9860	381
1 Mar. (80)	3 Tues.	16 20 6	2 Mar. (61) .	5 Thur	91-7098	381
1 Mar. (80)	4 Wed	22 32 15	21 Mar. (80)	4 Wed	126-3922	381
2 Mar. (81)	6 Pri	4 44 24	10 Mar. (69) .	1 Snn	2-1150	381
1 Mar. (81)	0 Sat	10 56 33	28 Feb. (59) .	6 Fri	216-4698	381
3 Mar. (80)	1 Sun	17 8 42	18 Mar. (77) .	5 Thur	251-1632	381

1								0		
				CONC	URRENT 1	YEAR.				
Kali.	Śaka,	Chaltradi Vikrama,	Meshidi solar year in Bengal.	Kollam.	A.D.	South syste		Northern system.		Mean intercalated (adhika) lunar month.
1	2	3	3a	4	5	8	10/1	7		8a
3821	642 643	777 778	126 127		719-20 *720-21		51 Pingal 52 Külay			5 Śrāvaņa .
3823	644	779	128	17/11/11	721-22		53 Siddha			
3824	645	780	120		722-23		54 Randra			2 Valšákha
3825	646	781	130	1111	723-24		55 Durma	ti		
3826	647	782	131		*724-25		58 Dunda			10 Pansha
2827	648	783	132	1 // 1	725-26		57 Rudhir	ödgárin .		***
3828	640	784	133		726-27	Production of the last	58 Raktál			
3829	650	785	134	faul de	727-28		59 Krödh	ana .		7 Aśvina
2830	651	786	135	100	*728-29		60 Kahay			
3831	652	787	136		729-30	70	1 Prabh	WWE ET IS		
3832	653	788	137		730-31		2 Vibha	m		3 Jyeshtha .
3833	654.	789	138		731-32		3 Sukla	(0)		
3834	655	790	139	danny.	*732-33		4 Pramô	da .		12 Phalguna .
3835	656	791	140		783-84		5 Prajār	ati† . ,		
3936	657	792	141		784-35	1.00	7 Srimu	kha		
3837	658	793	142	100	735-36		8 Bhāra	ar a		8 Kärttika
3838	659	794	143	H	*736-37		9 Frem	10 00		12.0
3839	660	795	144	KATE	737-38		10 Dhâty			
\$840	661	796	145	L LIVE II	738-39	1300	11 Hear			5 Srāvaņa
3841	662	797	146		739-40		12 Bahud	hānya .		
3842	663	798	147		*740-41		13 Pramā	thin	,	
3843	664	799	148		741-42		14 Vikras	на 💿 🖫		1 Chuitra .
3844	665	800	149	77/	742-43		15 Vrisha			
3843	666	801	150	-11	743-44		16 Chitra	bhlinn .		10 Pausha
-	-		-			1			1	

[†] No. 6 Angiras was suppressed according to the mean system. By the Brahma-Siddhunta "true" system K.Y. 3836, A.D. 734-735, was called Angiras, 7 Srimnkha being suppressed. K.Y. 3837, A.D. 735-36, was 8 Bhava by both systems.

XC-contd.

			C	OMM	ENG	EMI	ENT OF THE					
М	EAN	SOLAH YE	A.II.,				MEAN LUNI-SO CIVIL DAY ON	EAR 1	FRAR (MEA OH CHAITI	N ST	UNRISE OF THE UKLA 1 ENDS).	Kait
Day and monti	a,	Week-di	ıy.	mer	lime in M	eslin-	Day and mo	uth,	Week-d	ay.	s (here=t, the index of the tithi),	Kali
13		14			17		19		20		23	
		N SERVERY		H.	M.	8.	- 1000	-		T		1
22 Mar. (81) .	. *	4 Wed.	-	5	33	0	24 Feb. (55)	3	6 Fri.		2.5979	3821
21 Mar. (81) .	-	5 Thur,	10	11	45	9	14 Mar. (74)	174	5 Thur.	100	37-2803	3822
21 Mar. (80) .	-	6 Fri.	3	17	57	18	4 Mar. (63)	754	3 Tues.	-	251-6352	3823
22 Mar, (81) .	-	1 Sun.	27	0	9	27	21. Feb. (52)	14	0 Sat.		127-3579	3824
22 Mar. (81) .	17	2 Mon.	172	6	21	36	12 Mar. (71)		6 Fri.		162-0403	3825
21 Mar. (81) .	1.0	3 Tues.	He	12	33	45	29 Feb. (60)	27	3 Tues.	*	37-7632	3826
21 Mar. (80) .	36	4 Wed.	4	18	45	54	19 Mar. (78)	- 12	2 Mon.	**	72-4457	3827
22 Mar. (81) .	(0)	6 Fri.	19	0	58	3	9 Mar. (68)	14	0 Sat.	ā	286-8004	3828
22 Mar. (81) .		0 Sat.	1.5	7	10	12	26 Feb. (57)		4 Wed.	2	162-5233	3822
21 Mar. (81) .		1 Sun.	Ē	13	22	21	16 Mar. (76)		3 Tues.		197-2057	3830
21 Mar. (80) .	14	2 Mon.	32	19	34	30	5 Mar. (64)		0 Sat.		72-9284	3831
22 Mar. (81) .	*	4 Wed.	34	1	46	39	23 Feb. (54)	2	5 Thur.		287-2833	3833
22 Mar. (81) .		5 Thur.		7	58	48	14 Mar. (73)	÷	4 Wed.	949	321-9657	3833
21 Mar. (81) .	12	6 Fri.	*	14	10	57	2 Mar. (62)	9.00	1 Sun.		197-6886	3834
21 Mar. (80) .	35	0 Sat.		20	23	6	21 Mar. (80)		0 Sat.		232-3709	3835
22 Mar. (81) .		2 Mon.		2	35	15	10 Mar. (69)		4 Wed.		108-0938	3836
22 Mar. (81) .	4	3 Tues.	٠	8	47	24	28 Feb. (59)		2 Mon.	25	322-4486	3837
21 Mar. (S1) .	3	4 Wed.		14	59	33	17 Mar. (77)		o Sat.		18-4990	3838
21 Mar. (80) .	19	5 Thur.		21	11	42	7 Mar. (66)		5 Thur.	74	232-8538	3839
22 Mar. (81) .	3	0 Sat.		3	23	51	24 Feb. (55)		2 Mon.	6	108-5767	3840
22 Mar. (81) .		1 Sun.		9	36	0	15 Mar. (74)	,	1 Sun.		143-2591	3841
21 Mar. (81) .	2.5	2 Mon.		15	48	9	3 Mar. (63)	-	5 Thur.		18-9819	3842
21 Mar. (80)		3 Tues.	1	22	0	18	21 Feb. (52)		3 Tues.		233-3367	3843
22 Mar. (81) .		5 Thur.		4	12	27	12 Mar. (71)		2 Mon.		268-0191	3844
22 Mar. (81) .		6 Fri.	- 1		24	- 1	1 Mar. (60)	- 1	6 Fri.		148 7420	3845

TABLE

total con-	-		-	PONCII	RRENT YEA	P			
				CONCO	REBNI TEL	Cit.			
Kali.	Šaka.	Chaitradl Vikrama.	Meshidi solar year in Bengal.	Kollam.	A.D.	JOVIAN SAN	Northern system.		Mest intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7		84
3846 3847 3848 3849 3850	667 668 669 670 671	802 803 804 805 806	151 152 153 154 155		*744-45 745-46 746-47 747-48 *748-49	17 Subl 18 Târs 19 Pârt 20 Vya 21 Sarv	nja hiva ya		6 Bhādrapada.
3851	67.2	807	156	J. P.	749-50	22 Sarv	adhárin .	-	3 Jyesktha .
3852	673	808	157	Taril .	750-51	23 Virô	dhin		(44)
3853	674	800	158		751-52	24 Vik	rita .		12 Phälguna ,
3854	675	810	150	-	*752-53	25 Kha	EN .		ere i
3855	676	811	160	7 111	753-54	26 Nan	AMARINE SALLEY	100	NAME:
3856	677	812	161	-10	754-55	27 Vija	ya ·	10	8 Karttika
2857	678	813	162	-0.00	755-56	28 Jay	E = 10 a		***
2858	679	814	163	STALE.	*756-57		matha		1442
3859	680	815	164	11 12	757-58		mukha	-	5 Srāvaņa .
3860	681	816	165		758-59		nalamba .		1890 A
3861	682	817	166	240	759-60	32 Vila	mba		
3962	683	818	167		*760-61	33 Vik	irin		1 Chaitra
\$863	684	819	168		761-62	34 Sār			
3864	685	820	169	-	762-63	35 Pla			10 Pausha .
8928	686	821	170	100	763-64	36 Sah		0.8	
3856	887	823	171		*764-65	37 Sab	hana		-
\$967	638	82.9	172		765-66	38 Kn	MANUAL P. 12		6 Bhádrapada .
2808	059	824	173	1	766-67		vāvasu		100
3869	690	825	174	1	767-68		šbhava	-	
3870	691	826	175		*768-69	41 Pla	vanga		3 Jyeshtha .

XC-Contd.

		C	OMMENCEM	ENT OF THE	11 41		
М	EAN.	SOLAR YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHI			Kali,
Day and montl A.D.	h,	Week-day.	Time of mean Mësha- samkranti.	Day and month, A.D.	Week-day.	a (here = t, the index of the tithi).	
13	=	14	17	19	20	23	1
			н. м. s.	i i			
21 Mar. (81) .	20	0 Sat	16 36 45	19 Mar. (79)	5 Thur	178-4243	3846
21 Mar. (80) .	*	1 Sun	22 48 54	8 Mar. (67)	2 Mon	54:1472	3847
22 Mar. (81) .		3 Tues	5 1 3	26 Feb. (57) .	0 Sat. ,	268-5021	3848
22 Mar. (81) .	- 4	4 Wed	11 13 12	17 Mar. (76) .	6 Fri	303-1844	3849
21 Mar. (81) .	•	5 Thur.	17 25 21	5 Mar. (65) .	3 Tues.	178-9072	3850
21 Mar. (80) .	•	6 Fri	23 37 30	22 Feb. (53) .	0 Sat.	54-6301	3851
22 Mar. (81) .	-	1 Sun	5 49 39	13 Mar. (72) .	6 Fri.	89-3125	3852
22 Mar. (81) .	1.0	2 Mon	12 1 48	3 Mar. (62) .	4 Wed.	303-6673	2853
21 Mar. (81) .		3 Tues.	18 13 57	20 Mar. (80) .	2 Mon	9999-7177§	2854
22 Mar. (81) .		5 Thur	0 26 6	10 Mar. (69)	0 Sat	214-0726	3855
22 Mar. (81) .	ā	6 Fri	6 38 15	27 Feb. (58)	4 Wed.	89-7958	3856
22 Mar. (81) .		0 Sat	12 50 24	18 Mar. (77)	3 Tues,	124:4778	3857
21 Mar. (81) .	34	1 Sun	19 2 33	6 Mar. (66)	0 Sat	0.2006	3858
22 Mar. (81) .		3 Tues	1 14 42	24 Feb. (55) .	5 Thur	214-5555	3859
22 Mar. (81) .		4 Wed.	7 26 51	15 Mar. (74) .	4 Wed	249-2378	3860
22 Mar. (81) .		5 Thur.	13 39 0	4 Mar. (63)	1 Sun.	124 9607	3861
21 Mar. (81) .		6 Fri	19 51 9	21 Feb. (52)	5 Thur.	0.6835	3862
22 Mar. (81) .		1 Sun	2 3 18	11 Mar. (70)	4 Wed.	35-3658	3863
22 Mar. (81) .		2 Mon	8 15 27	1 Mar. (60)	2 Mon	249-7207	3854
22 Mar. (81) .		3 Tues	14 27 36	20 Mar. (79)	1 Sun	284'4031	3865
21 Mar. (81) .	1	ALCOHOLD IN	20 39 45	8 Mar. (68)	5 Thur.	160-1261	3856
22 Mar. (81) .		6 Fri.	2 51 54	25 Feb. (56) .	2 Mon.	35-8488	3867
22 Mar. (81) .		o Sat.	9 4 3	16 Mar. (75)	1 Sun.	70-5312	3868
22 Mar. (81) .		I Sun.	15 15 12	6 Mar. (65)	6 rri	284-8860	3869
21 Mar. (81) .	1		21 28 21	23 Feb. (54) .	3 Tues	160-6088	2870
	1		f/m stee /	1			

TABLE

-			-	aovo	URRENT Y	VAP		1	
				CONC	URRENT 1	na.a.		-	LEA
v. 10	Śaka.	Tkeama	lar year in	Kollam.	A.D.	JOVIAN SA	MVATSARA.	-	Mean intercalated (adhika) lunar month.
Kali.	Suke.	Chaitradi Vikrama.	Mčshiidi solar ; Pengal.	Kotiani		Southern system.	Northern system.		
1	2	3	3a	4	5	-6	7 -		Sa
0.000	692	827	176		769-70	42 KII	aka .		
3871	693	828	177		770-71	43 Sat			11 Magha .
3872	694	829	178		771-72		lhāraņa		
3874	695	830	179		*772-73		ödhakrit .		
3875	696	831	180		773-74	1000	ridhāvin		8 Kārttika -
3876	697	832	181		774-75	47 Pra	mādin		e 1
3877	698	833	182		775-76	48 Ān	ands		4
3878	699	834	183		*776-77	49 Ra	kslinen		4 Ashūdha .
3879	700	835	184		777-78	50 Au	ala		
3890	701	836	185		778-79	51 Pir	ngala		
3881	702	837	186		779-80	52 Ki	ilayukta	20	1 Chaitra
3882	703	838	187		*780-81	53 Sid	ldhärthin		
2893	704	839	188	100	781-82	54 Ra	indra		9 Mārgašīra -
3884	705	840	189		782-83	55 Du	ırmati		
3885	706	841	190	all o	783-84	56 Dr	andubhi		
3886	707	842	191		*784-85	57 Re	udhirödgárin .		6 Bhādrapada .
3887	708	843	192		785-86	58 Ra	aktāksha		
3888	709	844	193		786-87	59 K	rödhana		***
3889	710	845	194		787-88	60 K	shaya		3 Jyčshtha .
3890	711	846	198		*785-80	1 Pr	rabhava		
3891	712	847	196		789-90	2 V	ibhava		11 Mágha
3892	713	848	197	18	790-91	3 Ś	ıkla		
3893	714	849	198	3	791-92	4 P	ramôda		**
2894	715	850	196		*792-93	5 P	rajšpati		8 Káritika .
3895	716	851	200)	793-94	6 A	bgiras		

XC-Contd.

M	EAN	SOLAR YEAR					MEAN LUNI-SOL				Kali.
Day and mont	h.	Week-day.		mean	me i Me	čalin-	Day and mont	h,	Week-day.	a (here = t, the index of the tithi).	
13		14			17		19		20	23	1
				H.	M.	S.	+ #				
22 Mar. (81) .	- 1	4 Wed.	191	3	40	30	13 Mar. (72)			195:2912	3871
22 Mar. (81) .	- 3	5 Thur.	*	9.	52	39	2 Mar. (61)		6 Fri.		3872
22 Mar. (81) .	2.4	6 Fri.	*	16	4	48	21 Mar. (80)		5 Thur	Table States	3873
21 Mar. (81) .	7.6	0 Sat.	×		16	57	10 Mar. (70)		3 Tues.		3874
22 Mar. (81) .	(6	2 Mon.	0		29	6	27 Feb. (58)		0 Sat.	440 1900	3873
2 Mar. (81) .	12	3 Tues.	2		41	15	18 Mar. (77)		6 Fri.		3876
2 Mar. (81) .		4 Wed. 5 Thur.	0		53	24	7 Mar. (66) 25 Feb. (56)	1	3 Tues.		3877
1 Mar. (81) .	¥4,	100102000	2	23	5	33	40.00	140	1 Sun.	TOTAL STATE OF	3878
2 Mar. (81) .	- 4	0 Sat. 1 Sun.	2		17	42	14 Mar. (73)	(4)	6 Fri	and have	3879
2 Mar. (81)		2 Mon.			29 42	51	4 Mar. (63) 21 Feb. (52)		4 Wed	100.000	3880
2 Mar. (81) .		3 Tues.			54	9	11 Mar. (71)		CHAPTER A	******	3882
1 Mar. (81) .		5 Thur.	0	6	6	18	28 Feb. (59)		Esteman (3883
2 Mar. (81) .	- 22	6 Fri.			18	27	19 Mar. (78)			#1 Page	3884
2 Mar. (81) .		o Sat.			30	36	9 Mar. (68)		424	400 x 0.00	3887
2 Mar. (81) . 2 Mar. (82) .		2 Mon.			42	45	26 Feb. (57)		5 Thur.	141.0000	3886
2 Mar. (81) .	*	3 Tres.		The same	54	54	16 Mar. (75)		4 Wed.	100.0100	3887
2 Mar. (81) .		4 Wed.		13	7	3	5 Mar. (64)		1 Sun.	50.000m	3888
2 Mar. (81) .	3	5 Thur.		19		-	23 Feb. (54)		6 Fri.	266:5876	3889
2 Mar. (82) .	1 .	0.00		1		21	13 Mar. (73)		5 Thur.	100000000000000000000000000000000000000	3890
2 Mar. (81) .	40	0000		7		1000	2 Mar. (61)		2 Mon	100000	3891
2 Mar. (81) .		2 Mon.		13		39	21 Mar. (80)		1 Sun	011.0750	3895
2 Mar. (81) .		3 Tnes.			7	48	10 Mar. (69)		5 Thur		3893
2 Mar. (82) .		# WESTER		2 1			28 Feb. (59)		3 Tues		3894

TABLE

	11.5				1	-		-	
Kali.	Saka.	Chaitradi Vikrama	Möshildi solar year in Bengal.	Kollam.	A.D.		JOVIAN SA	Northern system.	Mean intercalated (adhika) lunar month.
1	2	3	34	4	5		6	7	Sa
3896	717	852	201		794-95	w i f	7 Śri	mukha	
77,44			202		795-96		S Rhi	The state of the s	4 Āshādha
3897	718	853		-	*796-97		9 Yu		
3898	719	854	203		797-98		10 Dh		
3899	720	855	204		798-99		10 Di		1 Chaitra
3900	721	856	205		799-800			hudhānya .	
3901	722	857	206	1					9 Märgnsira
3902	723	858	207		*800-01			amāthin	and the resemble them.
3003	724	859	208		801-02		14 Vil		***
3904	725	860	209	1	802-03		15 Vr		0 m - 1 to
3905	726	861	210		803-04			itrabhānu .	. 6 Bhadrapada
2906	727	862	211		*801-05		17 Su		
8907	728	863	10000		805-06		18 Ta		
3908	720	864			806-07			irthiva	2 Vaisākha
3909	730	865	214		807-08		20 V		21 (21)
8910	731	866	215		*808-09			rvajit	, 11 Magha
3911	732	867	216	3	809-10		22 Sr	arvadhāriu .	
3912	733	888	3 217	7	810-11		23 V	irodhin	344
3913	734			S	811-12		24 V	ikrita	. 7 Aśvina
3914	785	1		T	*81213			Chara	-
3915	736	87	1 22	0	813-14		26 N	Sandans	
3916	73	87	2 22	1	814-11		27 V	lijaya	. 4 Åshådha
3917	73	8 87	3 25	20	815-16		28 J	aya	-
2018	73	9 87	74 22	13	*816-1	7	29 3	Manmatha	. 12 Phälguna
3919	74	9 8	75 25	24	817-1	8	30 1	burmukha	140

^{+ 32} Vilamba was suppressed by mean reckoning. By Brakma-Siddhânta "true" reckoning the year K. Y. 8921, A.D. 819-20, was 32 "Vilamba," and 33 Vikārin was suppressed.

XC-Contd.

	cc	MMENCEME	NT OF THE			
MHAN	SOLAR YEAR.		MEAN LUNI-SOLAR W	ear (mean su h Chaitra su	NRISE OF THE KLA I ENDS).	Kalı.
Day and month,	Week-day.	Time of mean Mësha- samkranti.	Day and month, A.D.	Week-day.	a (here = t, the index of the tiths).	1
13	14	17	19	20	23	1
2 Mar. (81) .	0 Sat.	H. M. S.	7 Mar. (66) .	6 Fri	212:1581	389 389 389 289 390 390
22 Mar. (81)	1 Sun.	20 56 24	24 Feb. (55) .	3 Tues.	87-8810	3897
22 Mar. (82) .	3 Tues.		14 Mar. (74)	2 Mon	122-5633	3898
22 Mar. (81) .	4 Wed.	100 100 100	3 Mar. (62) .	6 Fri	9998-28625	2899
22 Mar. (81) .	5 Thur.		21 Feb. (52) .	4 Wed	212-6410	390
2 Mar. (81) .	6 Fri.	21 45 0	12 Mar. (71) .	3 Tues	247-3234	390
2 Mar. (82) .		3 57 9	29 Feb. (60) .	0 Sat.	123-0463	396
an order demand	-	10 9 18	19 Mar. (78) .	6 Fri	157:7287	390
22 Mar. (81) .	(AVAI)	16 21 27	8 Mar. (67)	3 Tnes.	33:4515	390
22 Mar. (81) .	4 307 3	. 22 33 36	26 Feb. (57)	1 Sun.	247-8064	390
MENERS WANT	0.79.4	4 45 45	16 Mar. (76)	0 Sat	282:4888	390
22 Mar. (82) .	0.004	10 57 54	5 Mar. (64)	4 Wed.	158:2115	390
22 Mar. (81) .	The motion	. 17 10 3	22 Feb. (53)	1 Sun.	33-9344	390
22 Mar. (81) .	Name of the last	23 22 12	13 Mar. (72)	0 Sat.	68-6108	390
22 Mar. (81) .		5 34 21	2 Mar. (62)	5 Thur.	282-9716	391
22 Mar. (82) .	w 1410	12 40 00	21 Mar. (80)	4 Wed.	317-6540	391
22 Mar. (81) .	6 Fri.	. 17 58 39	10 Mar. (69)	1 Sun.	193-3769	391
22 Mar. (81) .	9 866	0 10 48		5 Thur.	69-0998	391
Contract Contract	0.35	6 22 57	2012F (60)	4 Wed.	103-7821	391
The appearance of	O There	. 12 35 6	ACRES NAME		318-1369	391
Control of the contro	. 3 Tues.	. 18 47 15	CONTRACTOR OF THE PARTY OF THE	6 FeL	193-6598	591
22 Mar. (81) -	. 4 Wed.	0 70 04	The state of the same of the s	5 Thur.	. 228-5421	391
23 Mar. (82) .	6 Fri.		720120000000000000000000000000000000000	2 Mon.	. 104-2650	39
22 Mar. (82) .	. 0 Sat.	100	The same of the sa	1	. 138-9474	30
22 Mar. (81) . 22 Mar. (81) .	. 1 Sun.	The state of the s	Total Section	-	14:6703	395

[§] Chaitra fukla 1 was suppressed.

-		-						
				CO	NCURRENT	YEAR.		
Kali.	Šaka.	Chaitradi Vikrama.	Mëshadi solar year in Bengal.	Kollam.	A.D.	Jovian Southern system.	Samvatsara. Northern system.	Mean intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	84
3921 3922	742 743	877 878	226 227		819-20 *820-21		ikāriu	. 9 Märgaära .
3923	744	879	228		821-22	35 P	Yara	
3924	745	880	229		822-23	36 S	ubhakrit	6 Bhādrapada‡
8925	746	881	230		823-24	37 8	öbhana	
5926	747	882	231		*824-25	38 K	rödhin	
8927	748	883	232	0.1	825-26	39 V	iśvāvasu	2 Vaisākha .
3928	749	884	233	1.2	899-27	40 P	arābhava	
3929	750	885	234	2-3	827-28	41 P	lavanga	11 Māgha
\$930	751	886	285	3-4	*828-29	• 42 K	īlaka	1000
\$ 931	752	887	236	4-5	829-30	43 S ₀	annya	
\$932	753	888	287	5-6	830-31	44.86	idhāraņa	7 Āśvina .
5033	754	889	238	6-7	831-32	45 V	irödhakrit	
3934	755	890	239	7-8	*832-33	46 Pa	aridhāvin	
3935	756	831	240	8-9	833-34	47 Pr	ramādin	4 Āshādha .
3936	757	592	241	9-10	834-35	48 Ån	anda	
3937	758	893	242	10-11	835-36	49 Ri	ikshasa	12 Phälguna
3938	759	894	243	11-12	*836-37	50 Az	nla	
3939	760	895	244	12-13	837-38	51 Pi	ńgala	and .
3940	761	896	245	13-14	838-39	52 Ki	ilaynkta	9 Márgašira .
8941	762	897	245	14-15	839-40	53 Si	ldhärthin.	
3942	763	898	247	15-16	*840-41	54 Ra	andra	
3943	764	899	248	16-17	841-42	45 Du	rmati	5 Srāvaņa .
3944	765	900	249	17-18	842-43	56 Du	indubhi	
3945	766	001	250	18-19	843-44	57 Ru	dhiródgárin	
-	-				† Sec 4 Hou	-	-	

‡ See " Hemarks," p. 215 above,

X-C-Contd.

_	_				COM	OR PAGE	NCE	MENT OF THE					
		IEAN	SOLAR YE	EAR.				MEAN LUNI-SO	LAR	YEAR (MI	EAN S	UNRISE OF THE UKLA 1 ENDS).	
Day an	d mont	th.	Week-d	ay.	mea	ime n M	ēshu-	Day and mor	ith,	Week-	day.	a (here=t, the index of the tithi).	
1	3		14			17		19		20		23	1
						М.	8,	500	ī				
23 Mar. (8			4 Wed.	74	1	48	0	I Mnr. (60)		3 Tues.	2	229-0250	392
22 Mar. (8		(4,	5 Thur.	- 64	8	0	9	19 Mar. (79)		2 Mon.		263-7074	392
2 Mar. (8			6 Fri.		14	12	18	8 Mar. (67)	•			139-4313	392
2 Mar. (8	0.00		0 Sat.	20	20	24	27	25 Feb. (56)	1	3 Tues.		15-1531	392
3 Mar. (8	20 31	1	2 Mon.	2	2	36	36	16 Mar. (75)	,	2 Mon.		49-8355	302
2 Mar. (8			3 Tues.	8	8	48	45	5 Mar. (65)		0 Sut.		264-1904	392
2 Mar. (8		. ×	4 Wed.		15	0	54	22 Feb. (53)		4 Wed.		139-9132	302
Mar. (8	1) .	740	5 Thur.		21	13	3	13 Mar. (72)	114	3 Tues.		174:5955	3928
3 Mar. (8	2) -		0 Sat.		3	25	12	2 Mar. (61)		0 Sat.	- 24	50-3184	3920
2 Mar. (8	2) .		1 Sun.	5.5	9	37	21	20 Mar. (80)		6 Fri.	16	85-0009	3930
2 Mar. (8	1)	-	2 Mon.	33	15	49	30	10 Mar. (69)		4 Wed.		299-3556	3931
3 Mar. (8	1)	-	3 Tues.		22	1	39	27 Feb. (58)		1 Sun.		175-0784	3932
Mar. (8	2)		5 Thur.		4	13	48	18 Mar. (77)		0 Sat.		209-7609	3933
Mar. (8	2) .		6 Fri.		16	25	57	6 Mar. (66)		4 Wed.		85-4837	3934
Mar. (8	l) .		0 Sat.		16	38	6	24 Feb. (55)		2 Mon.	-	299-8385	3935
Mar. (8)	()		1 Sun.	-	22	50	15	14 Mar. (73)		0 Sat.		9995-8889 §	3936
Mar. (8:	9 .		3 Tues.		5	2	24	4 Mar. (63)		5 Thur.		210-2438	3937
Mar. (8)	9 .		4 Wed.		11	14	33	22 Mar. (82)		4 Wed.		244-9262	3938
Mar. (8)	0 .		5 Thur.		17	26	42	11 Mar. (70)		I Sun.		120-6490	8939
Mar. (8)) .		6 Fri.		23 2	38	51	28 Feb. (59)		5 Thur.		9996-8718 5	3940
Mar. (82) .		1 Sun.			51		19 Mar. (78)		4 Wed.		31-0542	3941
Mar. (82	N.		2 Mon.			3	9	8 Mar. (68)		2 Mon.		245-4090	3942
Mar. (81			3 Tues.					25 Feb. (56)		6 Fri.	1	121-1319	
Mar. (82			5 Thur.					16 Mar. (75)		5 Thur.		155-8143	3943
Mar. (82			6 Fri.		6 2		36	5 Mar. (64)		2 Mon		31-5379	3945

5 Chaitra fukla 1 was suppressed.

TABLE

	-			Lucyan				_	
				CONC	URRENT Y	EAR.			
Kali.	Śaka.	Chaltradi Vikrama.	Meshadi solar year in Bengal.	Kollam.	A.D.	Jovian Sa Southern system.	MVATSARA. Northern system.		Mean interculated (adhika) lunar month.
1	2	3	3a	4	5	6	7		Sa .
3946 3947 3948 3949 3950 3951 3952 3953 3954 3965 3965 3960 3961 3962 3963 3964 3964 3965	767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785	902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 920 921	251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 265 266 267 268 269 270	19-20 20-21 21-22 22-23 23-24 24-25 25-26 26-27 27-28 28-29 29-30 30-31 31-32 32-33 33-34 34-35 35-36 36-37 37-38 28-39	*844-45 845-46 846-47 847-48 *848-49 849-50 850-51 851-52 *852-53 853-54 854-55 853-56 *856-57 857-58 858-59 859-60 *860-61 861-62 862-63 863-64	58 Ral 59 Kro 60 Ksh 1 Pra 2 Vib 3 Śuk 4 Pra 5 Pra 6 Ańg 7 Śrii 8 Bhi 9 Yuv 10 Dh 11 Iśv 12 Bal 13 Pra 14 Vik 15 Vri	ctāksha		2 Vaišākha
3966	787	922	271	39-40	*864-65	18 Ta		-	2 Vaišākha
3967	788	923	279	40-41	865-66	19 Pa			10 Pausha
2068	789	924	273	41-42	866-67	20 Vy	куа		
2060	790	925	274	42-43	867-68	21 Su		1	++7
3970	791	926	275	13-44	*868-69	22 Sa	rvadhārin .		7 Aśvina
-									

XC-contd.

	UNLISH OF THE UKLA 1 ENDS).	N SU BA 61	EAR (MEA DII CHAFTI	MEAN LUNI-SOLAR Y CIVIL DAY ON WHIC		OLAR YEAR.	BAN S	ME
Kali.	a (here = t, the index of the tithi).	lay.	Week-d	Day and month, A.D.	Time of mean Mesha- samkranti,	Week-day.	th,	Day and monti
	23		20	19	17	14		13
	245-8919		0 Sat	23 Feb. (54)	H. M. S. 12 51 45	0 Sat		22 Mar. (82) .
394	280-5743		6 Pri.	13 Mar. (76)	19 3 54	1 Sun	9	22 Mar. (81) .
394	156-2972		3 Tues.	2 Mar. (61)	1 16 3	3 Tues		23 Mar. (82) .
3945	190-9796		2 Mon.	21 Mar. (80)	7 28 12	4 Wed		23 Mar. (82) .
3956	66-7024		6 Fri.	9 Mar. (69)	13 40 21	5 Thur		22 Mar. (82) .
3951	281-0572	2	4 Wed.	27 Feb. (58)	19 52 30	6 Fri	1.2	22 Mar. (81) .
3952	315-7397		3 Tues.	18 Mar. (77)	2 4 39	1 Sun		3 Mar. (82) .
3953	191-4624		0 Sat.	7 Mar. (66)	8 16 48	2 Mon		3 Mar. (82) .
3954	67-1853	-	4 Wed.	24 Feb. (55) .	14 28 57	3 Tues.	-	2 Mar. (82) .
3957	101-8677		3 Тпеъ	14 Mar, (73)	20 41 6	4 Wed.		2 Mar. (81) .
3956	316-2225		1 Sun.	4 Mar. (63)	2 53 15	6 Fri		3 Mar. (82) .
3957	12:2729		6 Fri.	22 Mar. (81)	9 5 24	0 Sat		3 Mar. (82) .
3958	226-6278	10	4 Wed.	11 Mar. (71)	15 17 33	1 Sun		2 Mar. (82) .
3959	102-3506	14	1 Sun.	28 Feb. (59) .	21 29 42	2 Mon	-	2 Mar. (81) .
3960	137-0329		0 Sat.	19 Mar. (78)	3 41 51	4 Wod.		3 Mar. (82) .
3961	12-7558	4	4 Wed.	8 Mar. (67) .	9 54 0	5 Thur.		3 Mar. (82) .
3962	227-1107	U	2 Mon.	26 Feb. (57) . 5	16 6 9	6 Fri.		Mar. (82) .
3963	261-7930	92	Sun.	16 Mar. (75) . 1	22 18 18	0 Sat		2 Mar. (81) .
3964	137-5159		Thur.	5 Mar. (64) . 5	4 30 27	2 Mon		Mar. (82) .
39/15	13-2387		Mon.	22 Feb. (53) . 2	10 42 36		100	Mar. (82) .
3966	47-9211		Sun.	12 Mar. (72) . 1	16 54 45	ALCOHOLD TO THE REAL PROPERTY.	100	Mar. (82) .
3967	262-2759	*	Fri.	2 Mar. (61) . 6	23 6 54	Thur 2	. 1	Mar. (81) .
3908	296-9584	,	Thur.		a man and	Sat.	. 0	Mar. (82) .
3960	172-6812	4	Mon.	0 Mar. (69) . 2	1 31 12 1	Sun 1	. 1	Mar. (82) . Mar. (82) .

TABLE

2 3 3a 4 5 6 7 8a					CONC	RRENT Y	EAR.		
71 702 927 276 44-45 860-70 23 Virödhin	Kali.	Śaka.	Chaiteadi Vikrama.	Mëshidi solar year in Bengal.	Kollam.	A.D.	Southern	Northern	intercalated (adhika) lunar
72 793 928 277 45-46 870-71 24 Vikṛita 73 794 920 278 46-47 871-72 25 Khara 3 Jyēshṭha 74 795 930 279 47-48 *872-73 26 Nandana 75 706 931 280 48-49 873-74 27 Vijaya 12 Phāiguna 76 797 932 281 49-50 874-75 28 Jaya 77 798 933 282 50-51 875-76 29 Manmatha 78 799 934 283 51-52 *876-77 30 Durmukha 8 Kārttika 79 800 935 284 52-53 877-78 31 Hēunlamba 80 801 936 285 53-54 878-79 32 Vilamba 81 802 937 286 54-55 879-80 33 Vikārin 5 Śrāvaṇa 82	1	2	3	3a	4	5	6	7	8a
73	3971	792	927	276	44-45	869-70	23 Vir	ödhin	è (1999)
74 795 930 279 47-48 *872-73 26 Nandana . 75 796 931 280 48-49 873-74 27 Vijaya . 12 Phālguna 76 797 932 281 49-50 874-75 28 Jaya . </td <td>3972</td> <td>793</td> <td>928</td> <td>277</td> <td>45-46</td> <td>870-71</td> <td>24 Vil</td> <td>crita</td> <td>. 255</td>	3972	793	928	277	45-46	870-71	24 Vil	crita	. 255
75 796 931 280 48-49 873-74 27 Vijaya . 12 Phālguna 76 797 932 281 49-50 874-75 28 Jaya	3973	1500	929	11,2400	Marie Cont.	The Are	25 Kh	iara	. 3 Jyështha
76 797 932 281 49-50 874-75 28 Jaya	3974	100	E STA	1		Santa	26 Na	ndana	*
77	3975		2000	N. Ocean	CALL THE	0.0000000000000000000000000000000000000	30.00		. 12 Phälguna
78 799 934 283 51-52 *876-77 30 Darmukha 8 Kārttika 79 800 935 284 52-53 877-78 31 Hēmalamba	3976		CHARLES.		1 40000	7-1-1-1-1	28 Jay	ya	444
79 800 935 284 52-53 877-78 31 Hēmalamba	3977	7.047		410000	1200000		29 Ma	nmatha	
S0 S01 936 285 53-54 878-79 32 Vilamba S1 S02 937 286 54-55 879-80 33 Vikārin S2 S03 938 287 55-56 *880-81 34 Šārvatīn S83 S04 939 288 56-57 881-82 35 Plava S84 S05 940 289 57-58 882-83 36 Šubhakrīt 1 Chaîtra S85 S06 941 290 58-59 883-84 37 Šōbhana S65 S07 942 291 59-60 *884-85 33 Krōdhīn S87 S08 943 292 60-61 885-86 39 Viśvāvasu S88 S09 944 293 61-62 886-87 40 Parābhava S89 S10 945 294 62-63 887-88 41 Plavaūga 6 Bhādrapada S90 S11 946 295 63-64 *888-89 42 Kilaka S91 S12 947 296 64-65 889-90 43 Saumya S92 S13 948 297 65-66 890-91 44 Sādhāraṇa 3 Jyēshtha S90 S14 949 298 66-97 891-92 45 Virōdhakrīt S90 S15 950 299 67-68 *892-93 46 Paridhāvin 11 Māgha	3978	(27.7)	10.755.00.01	(2000)	0.000	S. WARRED		or and the second	. 8 Kārttika
81 802 937 286 54-65 879-80 33 Vikārin	3979	550		The Co.	20.075		Tan Maria		e. (est.)
882 803 938 287 55-56 *880-81 34 Śārvatin 883 804 939 288 56-57 881-82 35 Plava 884 805 940 289 57-58 882-83 36 Śubhakrit 1 Chaitra 885 806 941 290 58-59 883-84 37 Śōbhana 886 807 942 291 59-60 *884-85 38 Krōdhin 10 Pausha 987 808 943 292 60-61 885-86 39 Viśvāvasu 988 809 944 293 61-62 886-87 40 Parābhava 989 810 945 294 62-63 887-88 41 Plavañga 6 Bhādrapada 990 811 946 295 63-64 *888-89 42 Kilaka 991 812 947 296 64-65 889-90 43 Sanmya 992 813 948 297 65-66 80-91 44 Sādhāraņa 3 Jyēshtha 993 814 949 298 66-67 892-93 46 Paridhāvin <t< td=""><td>3980</td><td>77</td><td></td><td>1000</td><td>Distance :</td><td></td><td></td><td></td><td>1</td></t<>	3980	77		1000	Distance :				1
1	3981		F-0 0 0	VALUE OF STREET					. 5 Srāvaņa
864 805 940 289 57-58 882-83 36 Šubhakrit . 1 Chaitra 865 806 941 290 58-59 883-84 37 Šõbhana . 10 Pausha 866 807 942 291 59-60 *884-85 38 Krödbin . 10 Pausha 987 808 943 292 60-61 885-86 39 Viśvāvasu . 988 809 944 293 61-62 886-87 40 Parābhava . 989 810 945 294 62-63 887-88 41 Plavabga . 6 Bhādrapada 990 811 945 295 63-64 *888-89 42 Kilaka . 291 812 947 296 64-65 889-90 43 Saumya . 992 813 948 297 65-66 890-91 44 Sādhāraņa 3 Jyēshtha 998 814 949 298 66-97 891-92 45 Virōdhakrit . 999 815 950 290 67-68 *892-93 46 Paridhāvin 11 Māgha	1082				467766		250-31100		- 1
985 806 941 290 58-59 883-84 37 Šöbhana 986 807 942 291 59-60 *884-85 38 Krödhin 10 Pausha 987 808 943 292 60-61 885-86 39 Viśvāvasu 988 809 944 293 61-62 886-87 40 Parābhava 989 810 945 294 62-63 887-88 41 Plavanga 6 Bhādrapada 990 811 945 295 63-64 *888-89 42 Kilaka 291 812 947 296 64-65 889-90 43 Saumya 992 813 948 297 65-66 890-91 44 Sādhāraya 3 Jyēshtha 993 814 949 298 66-67 891-92 45 Virōdhakrit 994 815 950 299 67-68 *892-93 46 Paridhāvin 11 Māgha	3983	222771	P+274.0	1.5400	-4900100		3.440.000		
10 Pausha 10 P	3084	Settle 4	10.00	1000	Marin M.	OF MAIN			. 1 Chaitra
087 808 943 292 60-61 885-86 39 Viśvāvasu 10 Patisha 988 809 944 293 61-62 886-87 40 Parābhava 10 Patisha 989 810 945 294 62-63 887-88 41 Plavanga 6 Bhādrapada 990 811 945 295 63-64 *888-89 42 Kilaka 10 Patisha 291 812 947 296 64-65 889-90 43 Saumya 10 Patisha 992 813 948 297 65-66 890-91 44 Sādhāraņa 3 Jyēshtha 993 814 949 298 66-67 891-92 45 Virōdhakrit 11 Māgha 998 815 950 299 67-68 *892-93 46 Paridhāvin 11 Māgha	3085 acct	Sin	1	15500	10000000		5 C C C C C C C C C C C C C C C C C C C	WHEN STATE	* 12
988 809 944 293 61-62 886-87 40 Parābhava	3986	18		1112000	THE PART OF THE		12.5		. 10 Pansha
889 810 945 294 62-63 887-88 41 Plavanga 6 Bhādrapada 990 811 945 295 63-64 *888-89 42 Kilaka					- 000 Maria	100000000000000000000000000000000000000			2 225
990 811 945 295 63-64 *888-89 42 Kilaka	PAMPON	0.754.0	- Control	1000	WEST AND	9 SELECTION I			100000000000000000000000000000000000000
291 812 947 296 64-65 889-90 43 Saumya	2990	I more	1000	The same		11000000			6 Bhādrapada
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993 814 949 298 66-67 891-92 45 Virôdhakrit	3992			A LATERA		RECORDED IN		different	
999 815 950 299 67-68 •892-93 46 Paridhāvin . 11 Māgha	3993		-				100-000	infollow beds	. 3 Jyeshtha
. II Magha	1499a		-	The same	- Marian	1010		Marie	
995 816 951 300 68-69 893-94 47 Pramādin	1993	816	951	0 20	68-69	893-94			11 Magha

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					ENT OF THE	CEM	MEN	юм	C					
Kali.	MEAN SGLAR YEAR. MEAN LUNI-SOLAR YEAR (MEAN SUNRISE OF THE CIVIL DAY ON WHICH CHAITEA SUKLA 1 ENDS).													
	a (here=t, the index of the tithi).	-day.	Week-d	ith,	Day and mor A.D.	Time of mean Mësha- samkranti.			ny.	Week-da	Day and month, A.D.			
1	23	0	20		19		17			14		13		
	Paralle 1				17 M (80)		. м					Mar. (81) .	99	
3971	83-0864	Tal I	5 Thur.		17 Mar. (76)	30	55	23		3 Tues.				
3975	297-4412		3 Tues.		7 Mar. (66)	39	7	6		5 Thur.	*	Mar. (82) .		
3973	173:1641		0 Sat.		24 Feb. (55)	48	19	12	•	6 Fri.		Mar. (82) . Mar. (82) .		
3974	207-8464		6 Fri.	*	14 Mar. (74)	57	31	18		0 Sat.		Mar. (82) .		
3975	83:5693		3 Tues.	*	3 Mar. (62)	6	44	0		2 Mon.	•	THE PROPERTY OF		
3976	118-2517		2 Mon.	7	22 Mar. (81)	15	56	6	11	3 Tues.	•	Mar. (82) .		
3977	332-6065		0 Sat.		12 Mar. (71)	24	8	13		4 Wed.		Mar. (82) .		
3978	208-3293		4 Wed.	*	29 Feb. (60)	33	20	19		5 Thur.	*	Mar. (82) .		
3979	243-0118		3 Tues.	*	19 Mar. (78)	42	32	1	•	O Sat.	- 5	Mar. (82) .		
3980	118-7346		0 Sat.	*	8 Mar. (67)	51	44	7	*	1 Snn.		Mar. (82) .		
3931	333-0894	SPECIFIC	5 Thut.		26 Feb. (57)	0	57	13	12:	2 Mon.	1	Mar. (82) .		
3981	29-1398		3 Tues.	*	15 Mar. (75)	9	9	20	*	3 Tues.		Mar. (82) .		
3985	243-4947		1 Sun.		5 Mar. (64)	18	21	92	112	5 Thur.		Mar. (82) .		
3994	119-2175		5 Thur.		22 Feb. (53)	27	33	8	74	6 Fri.	•	Mar. (82) .		
3985	153-8998	l	4 Wed.		13 Mar. (72)	36	45 .	14		0 Sat.		Mar. (82) .		
3986	29-6227		1 Sun.	*	1 Mar. (61)	45	57	20	:*	1 Sun.		Mar. (82) .		
3987	64:3052		0 Sat.		20 Mar. (79)	54	9	3		3 Tues.		Mar. (82) .		
3988	278-6599	r	5 Thur.		10 Mar. (69)	3	22	9		4 Wed.		Mar. (82)		
3989	154:3828		2 Mon.		27 Feb. (58)	12	34	15	-	5 Thur.		Mar. (82) .		
3990	189-0652		1 Snn.		17 Mar. (77)	21	46	21	1/6	6 Fri.		Mar. (82) .	22	
3991	64-7881	r	5 Thur.		6 Mar. (65)	30	58	3	1.0	1 Sun.		Mar. (82) .	23	
8999	279-1428		3 Tues.	*	24 Feb. (55)	39	10	10		2 Mon.		Mar. (82) .	23	
3993	313-8252		2 Mon.		15 Mar, (74)	48	22	16		3 Tues.		Mar. (82) .	23	
8994	189-5481		6 Fri.	3	3 Mar. (63)	57	34	22		4 Wed.		Mar. (82) .	22	
2995	224:1204	r	5 Thur.		22 Mar. (81)	6	47	4		6 Fri.		Mar. (82) .	23	

*********				CONCU	RRENT Y	EAR.
Kali.	Śaka.	Chaftradi Viltrama-	Měshádi solar year in Bengal.	Kollam.	A.D.	JOVIAN SAMVATSARA. Mean intercalated (adhika) lunar month. Sonthern System. System.
1	2	3	30	- 4	5	6 7 8a
3906 3907 3908 3909 4000	817 818 819 820 821	952 953 954 955 956	301 302 303 304 305	69-70 70-71 71-72 72-73 73-74	894-95 895-96 *896-97 897-98 898-99	48 Ānanda
4001	822	957	306	74-75	899-900	58 Siddharthin ,
4002	823	958	307	75-76	*900-01	54 Randra
4003	824	959	308	76-77	901-02	55 Durmati . , . 1 Chaitra
4004	825	560	309	77-78	902-03	56 Dandabhi
4005	826	961	310	78-79	903-04	57 Rudhirödgårin† 10 Pausha
4006	827	962	311	79-80	*904-05	58 Raktāksha . 59 Krōdhasa
4007	828	963	312	80-81	905-06	59 Krödhana . 60 Kshaya
4008	829	964	313	81-82	906-07	60 Kaliaya 1 Prabhava . 6 Hhādrapada
4000	830	965	314	82-83	907-08	1 Prabhava . 2 Vibhava
4010	831	966	315	83-84	*908-09	2 Vibhava . 3 Śukla
4011	832	967	316	84-85	909-10	3 Śukla 4 Pramoda . 3 Jyeshtha
4012	833	968	317	85-86	910-11	4 Pramôda . 5 Prajápati
4013	834	969	318	86-87	911-12	5 Prajāpati . 6 Angiras 11 Māgha
4014	835	970	319	87-88	*912-13	6 Angiras 7 Śrimukha
4015	836	971	320	88-89	913-14	7 Śrimukha . 8 Bhâva
4016	837	972	321	89-90	914-15	8 Bhava 9 Yuvan 8 Karttika
4017	888	973	522	90-91	915-16	9 Ynvan 10 Dhâtri
4018	839	974	323	91-92	*916-17	10 Dhātri 11 Iśvara
4019	840	975	324	92-93	917-18	11 Isvara 12 Bahudhanya . 4 Ashadha
4020	841	976	325	93-94	918-19	12 Bahudhānya . 13 Primāthin

^{† 58} Raktāksha was suppressed in the north. By southern reckoning there was no suppression, and there has been none since. By Brahma-Siddhāsta "true" reckoning K.Y. 4006, A.D. 904-05, was 58 Raktāksha, 59 Krōdhana being suppressed in the north.

XC-contd.

					1						
MEAN SOLAR YEAR. MEAN LUNI-SOLAR YEAR (MEAN SUNRISE OF THE CIVIL DAY ON WHICH CHAITER SUKLA 1 ENDS).											
Day and month	Week-day.	mean !	ne of Mësha- ranti.	Day and month, A.D.	Week-day.	a (here=t, the index of the tithi).					
13		14	1	7	19	20	23	1			
23 Mar. (82) .		0 Sat.	200	M. S. 9 15	11 Mar. (70)	2 Mon.	99-9533	3996			
23 Mar. (82) .		1 Sun	tine e	1 24	1 Mar. (60)	0.04		3997			
22 Mar. (82) .		2 Mon	2200	3 33	10 35 - (80)	(may)	roores	3998			
23 Mar. (82)		4 Wed.	132.03	5 42	8 Mar. (67)		224-7133	3999			
23 Mar. (82) .		5 Thur.	11 4	200	25 Feb. (56) .	O O O	100 1000	4000			
23 Mar. (82) .		6 Fri.	J	0 0	16 Mar. (75) .	6 Fri.	135:1186	4001			
23 Mar. (83) .		1 Sun.	0 1	2 9	4 Mar. (64) .	3 Tues.	10:8415	1002			
23 Mar. (82) ,		2 Mon	6 2	4 18	22 Feb. (53) .	1 Sun	225-4963	4003			
23 Mar. (82) .		3 Tues	12 3	6 27	13 Mar. (72) .	0 Sat	259-8786	4004			
23 Mar. (82) .	1.0	4 Wed.	18 4	8 36	2 Mar. (61) .	4 Wed	135-6015	4005			
23 Mar. (83) .		6 Fri	1	0 45	20 Mar. (80) .	3 Tues	170-2839	4006			
23 Mar. (82) .		0 Sat	7 1	2 54	9 Mar. (68) .	0 Sat	46.0067	4007			
23 Mar. (82) .		1 Sun	13 2	5 3	27 Feb. (58) .	5 Thur	260-3616	4008			
23 Mar. (82) .		2 Mon	19 3	7 12	18 Mar. (77) .	4 Wed	295-0440	4009			
23 Mar. (83) .		4 Wed	1 4	9 21	6 Mar. (66) .	1 Sun	170-7668	4010			
23 Mar. (82) .	29	5 Thur.	8	30	23 Feb. (54) .	5 Thur	46-4896	4011			
23 Mar. (82) .	34	6 Fri	14 13	3 39	14 Mar. (78) .	4 Wed.	81-1720	4012			
3 Mar. (82) .		0 Sat	20 2	5 48	4 Mar. (63) .	2 Mon	295-5269	4013			
23 Mar. (83) .	114	2 Mon	2 37	7 57	22 Mar. (82) .	1 Sun	330-2092	4014			
23 Mar. (82) .	(4)	3 Tues	8 50	6	11 Mar. (70) .	5 Thur	205-9321	4015			
23 Mar. (82) .	10	4 Wed	14 5	1.7	28 Feb. (59) .	2 Mon	81-6549	4016			
23 Mar. (82) .	2	5 Thur	21 1	24	19 Mar. (78) .	1 Sun	116-3373	4017			
23 Mar. (83) .	4	0 Sat	3 26	33	8 Mar. (68) .	6 Fri	230-6931	4018			
3 Mar. (82) .	74	1 Sun	9 38	42	25 Feb. (56) .	3 Tues.	206-4150	4019			
3 Mar. (82) .	14	2 Mon	15 50	51	16 Mar. (75) .	2 Mon.	941-0974	4020			

	T			CONCUI	REENT YE	AR,		
		krama.	solar year in	44.		Jovian Sam	Mean intercalated (adhiku) lunar	
Kuli.	Śaka.	Chaitradi Vikrama.	Mëshādi sola Bengal.	Kollam.	A.D.	Southern system.	Northern system.	mouth.
1	2	3	3a	:4	5	6	7	8a
4021	842	977	326	94-95	919-20	13 Pramāthin	14 Vikrama	340
4022	843	978	327	95-96	*920-21	14 Vikrama .	15 Vrisha	1 Chaitra .
4023	844	979	328	96-97	921-22	15 Vrisha	16 Chitrabhānu .	
4024	845	980	329	97-98	922-23	16 Chitrabhānu .	17 Subhānu .	9 Märgasira .
4025	846	981	330	98-99	923-24	17 Subhānu .	18 Taraņa	240
4026	847	982	331	99-100	*924-25	18 Татаџа	19 Pärthiva	Ve+1
4027	848	983	332	100-01	925-26	19 Parthiva .	20 Vyaya	6 Bhādrapada .
4028	849	984	333	101-02	926-27	20 Vyaya	21 Sarvajit .	
4020	850	985	334	102-03	927-28	21 Sarvajit	22 Sarvadhārin .	
4030	851	986	335	103-04	*928-29	22 Sarvadhārin .	23 Virödhin	2 Vaisākha
4031	852	987	336	104-05	929-30	23 Virôdhin .	24 Vikrita	2.0
4032	853	988	337	105-06	980-31	24 Vikrita	25 Khara	11 Māgha
4033	854	989	338	106-07	931-32	25 Khara	26 Nandana .	
4034	855	990	339	107-08	*932-83	26 Nandana .	27 Vijaya	***
4035	856	991	340	108-09	933-34	27 Vijaya	28 Jaya	7 Āsvins .
4036	857	992	341	109-10	934-35	28 Jaya	29 Manmatha .	
4037	858	993	342	110-11	935-36	29 Manmatha .	30 Durmukha .	1
4038	859	994	343	111-12	*936-37	30 Durmakha .	31 Hēmalamba .	4 Āshāḍha .
4039	860	995	344	112-13	937-38	31 Hêmalamba .	32 Vilamba	we -
4040	861	996	345	113-14	938-39	32 Vilamba .	33 Vikāriu	***
4041	862	997	346	114-15	939-40	33 Vikārin	34 Śārvarin .	1 Chaitra .
1042	863	998	347	115-16	*940-41	34 Sarvarin .	35 Playa	2327
4043	864	999	348	116-17	941-42	35 Plava	36 Śubhakrit .	9 Märgasira .
4044	865	1000	349	117-18	942-43	36 Subbakşit .	37 Śöbhana	
4015	866	1001	350	118-19	943-11	37 Söbhana	38 Krödhin	

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2,000	71.5		-	0.57	1912000	10000	- # # J P	ENT OF T	11.10		_		
	Mı	AN	SOLAR YEA	n.								NRISE OF THE KLA I ENDS).	K ali.
Day and mouth,			Week-da	Time of mean Mesha- samkranti.			Day and month, A.D.		Week-d	ay.	a (here - t, the index of the tithi).		
1	3		14			17		1	9 ,	20		23	1
SE SERVICE			Victoria de la composição de la composição de la composição de la composição de la composição de la composição		H.	M.		Teaser //	-			Total Control	
23 Mar. (8			3 Tues.	×	22	3	0	5 Mar. (6 Fri.	0	116-8202	402
23 Mar. (8		12	5 Thur.	*	4	15	9	23 Feb. (4 Wed.		331-1750	402
23 Mar. (8	100 00	103	6 Fri.	15	10	27	18	12 Mar. (2 Mon.		27-2254	402
23 Mar. (8	2)	3	0 Sat.		16	39	27	2 Mar. (61)	0 Sat.		241-5802	402
3 Mar. (8	2)	1	1 Sun.	1/2	22	51	36	21 Mar. (80) .	6 Fri.	4	276-2626	402
3 Mar. (8	3)	100	3 Tues.	14	ā	3	45	9 Mar. (69) .	3 Tues.	4	151-9855	402
3 Mar. (8	3)		4 Wed.	(6)	11	15	54	26 Feb. (57)	0 Sat.	*	27:7084	402
3 Mar. (8	3)	.(0	5 Thur.		17	28	3	17 Mar. (76) .	6 Fri.		62:3907	402
3 Mar. (8	3) .	8	6 Fri.		23	40	12	7 Mar. (66)	4 Wed.		276-7455	402
3 Mar. (8	3) .	1	1 Sun.	12	5	52	21	24 Feb. (7	5) ,	1 Sun.	,	152-4684	403
3 Mar. (8	2)	150	2 Mon.		12	4	30	14 Mar. (73) .	0 Sat.	1	187:1507	403
3 Mar. (8	2)	- 4	3 Tues.	4	18	16	39	3 Mar. (62)	4 Wed.	¥	62-8736	403
4 Mar. (8	3) .	34	5 Thur.		0	28	48	22 Mar. (8	81)	3 Tnes.	÷	97:5560	403
3 Mar. (8	3) .	1	6 Fri.		6	40	57	11 Mar. (71) .	1 Sun.		311-9109	403
3 Mar. (8	2).		0 Sat.		12	53	6	28 Feb. (5	9) .	5 Thur.		187-6336	403
3 Mar. (8	2)		1 Sun.		19	5	15	19 Mar. (78) .	4 Wed.		222-3161	403
4 Mar. (8	3)		3 Tues.		1	17	24	S Mar. (37)	1 Sun.		98-0389	403
3 Mar. (8	3)	150	4 Wed.	25	7.	29	33	26 Feb. (5	57)	6 Fri.	1	312-3938	403
3 Mar. (8	3) .		5 Thur.		13	41	42	15 Mar. (74) .	4 Wed.	-	8-4441	403
3 Mar. (8			6 Fri.	9	19	53	51	5 Mar. (6	54) .	2 Mon-		222-7990	404
4 Mar. (8			1 San.		2	6	0	22 Feb. (5	(3)	6 Fri.		98-5218	404
3 Mar. (8			2 Mon.		8	18	9	12 Mar. (5	72)	5 Thur.		133-2042	404
3 Mar. (8			3 Tues.		14	30	18	1 Mar. (6	301	2 Mon	4	89270	404
3 Mar. (8			4 Wed.				270	20 Mar. (7		1 Sun.		43-6004	401
4 Mar. (8	- Table 100		6 Pri.		2			10 Mar. (в Ŷri.	0	257:9643	404

TABLE

Marketon	-	-	-				-		
12110	1			CON	CUBRENT	YEAR.			
Kali.	Śaka.	Chaitradi Vikrama.	Meshādi solar year in Bengal.	Kollam.	A.D.	JOVIAN S Southern system.	A	MVATSARA, Northern system.	Mean interculated (adkika) lunar month.
	_	Chu	Me						
1	9	3	3a	4	5	6		7	Sa
1010								A THE LOT I	
4046	867	1002	351	119-20	*944-45	38 Krödhin	,	39 Viśvāvasu .	. 6 Bhādrapada .
4047	868	1003	352	120-21	945-46	39 Viśvāvasu		40 Parābhava	
4048	869	1004	353	121-22	946-47	40 Parābhava		41 Plavanga .	
4049	870	1005	354	122-23	947-48	41 Plavanga		42 Kilaka	2 Vnišákha .
4050	871	1006	355	123-24	*948-49	42 Kilaka		43 Sanmya	mark =
4051	872	1007	356	124-25	949-50	43 Sanmya		44 Sādhāraņa	. 11 Māgha .
4052	873	1008	357	125-26	950-51	44 Sādhāraņa .		45 Virodhakrit .	
4053	874	1000	358	126-27	951-52	45 Virôdhakrit .		46 Paridhāvin .	3
4054	875	1010	359	127-28	*952-53	46 Paridhāvin		47 Pramādin .	7 Āśvina .
4055	876	1011	360	128-29	953-54	47 Pramādin		48 Ānauda	244
4056	877	1012	361	129-30	954-55	48 Ananda .		49 Rākshasa .	
4057	878	1013	362	130-31	955-56	49 Rākshasa		50 Anala	4 Āshādha .
4058	879	1014	363	131-32	*956-57	50 Anala .		51 Pingala	
4059	880	1015	364	132-33	957-58	51 Pingala .		52 Kālaynkta .	12 Phälguna
4060	881	1016	365	133-34	958-59	52 Kālayukta		53 Siddharthin	(9)
4061	882	1017	366	134-35	959-60	53 Siddhārthin		54 Randra	194
4062	883	1018	367	135-36	*960-61	54 Randra .		55 Durmati .	9 Mārgašīra .
4003	884	1019	368	135-37	961-62	er n		56 Dundabhi	A CHARLESTON OF
4064	885	1020	369	137-38	962-63	56 Dundubhi		57 Rudhirödgärin	
4065	886	1021	370	138-39	963-64	57 Rudhirödgårin		58 Raktāksha .	5 Śrāvaņa .
4066	887	1022	371	139-40	*964-65	58 Raktāksha		59 Krödhans	
4067	888	1023	372	140-41	965-66	70 F - n		60 Kshaya	1.577
40/18	889	1024	373	141-42	966-67	60 Kshaya .	1	1 Prabhava	o Watthan
4069	890	1025	374	142-43	967-68	1 D-11		2 Vibhava	2 Valiakha .
4070	891	1026	375	148-44	*968-69	o VILL		3 Sukla	10 Pr - 1
-	V		1			E 225. W2005	1	y Dilkin .	10 Pansha .

XC-contd.

M	RAN S	OLAH YEAR,				MMAN	LUNI-S	OLAR T	YEAR (ME.	AN SI	UNRISE OF THE UKLA 1 ENDS).	
Day and mon A.D.	th.	Week-day,		Time nean I sarbk	desha-	Day	and mo	nth,	Week-d	ay.	a (hero = t, the index of the tithi).	Kali,
13		14	1	17	,		19		20		23	1
a a tax		24.	Ī	н. м								
3 Mar. (83) .			1	9 6	45	27 Feb	-common		3 Tues.		133-6871	4046
3 Mar. (82) .	74	2742		15 18	. 2	17 Ma	300	3	2 Mon.	33	168-3695	404
3 Mar. (82) .		4 100 0		31		6 Mar	0.64	1	6 Fri.	100	+44-0928	4048
4 Mar. (83) . 3 Mar. (83) .		Service Control		3 43		24 Feb		-	4 Wed.	74	258-4471	404
3 Mar. (82) .		di man		9 55	200	14 Mar		- 8	3 Tues.	-	293-1295	4050
3 Mar. (82) .	*	0 Sat.	1	6 7		3 Mar	COST (CARTON	- 1	0 Sat.	34	168-8524	4051
4 Mar. (83) .		200		2 19		22 Mac		15	6 Pri.	12	203-5348	4051
3 Mar. (83) .		200	1	4 31	48	11 Mar		9	3 Tues.		79-2576	4052
3 Mar. (82) .		0.000000		0 43 6 56	57	29 Feb.	V 01	- 1	1 Sun.	27	293-6125	4054
3 Mar. (82) .	•	A CONTRACTOR OF THE PARTY OF TH	1	3 8	15	19 Mar 8 Mar		*	0 Sat.	3	328-2949	4055
4 Mar. (83) .		0.00		5 20	24	25 Feb.			4 Wed.	*	204:0176	4056
3 Mar. (83)	1	1 Sun.	1		33	15 Mar			1 Sun.	- 1	79-7405	4057
3 Mar. (82)		2 Mon-	1		42	5 Mar	1021000		O Sat, 5 Thur.		114-4229	4058
3 Mar. (82) .		3 Tues.	2		51	23 Mar.	ACCULT)		1 Sun.		328-7778	4059
Mar. (83)		e ma		9	0	13 Mar.	200	- 2	1 Sun.	3	24-8281	4060
3 Mar. (83) .		6 Fri.	1		9	1 Mar.			5 Thur.	20	239-1830	4061
Mar. (82) .		0 Sat.	1			20 Mar.			4 Wod.		149-5881	4062
Mar. (83)		2 Mon.		45	27	9 Mar.			1 Sun.		25:3110	- 200
Mar. (83)	1	3 Tues		57	36	27 Feb.			6 Fri.		239-6659	4064
Mar. (83)	-	4 Wed.			45	17 Mar.			5 Thur.		274-3483	4066
Mar. (82) .		5 Thur	19		54	6 Mar.			2 Mon.		150-0710	4067
Mar. (83) .		0 Sat.			3	23 Feb.	No.		Fri.		25-7939	4068
Mar. (83) .		î Sun			12	14 Mar.			5 Thur.		60-4763	4069
Мет. (83) .		2 Mon	1:		21	3 Mar.			Tues.		274-8321	4970

TABLE

				CON	CURRENT	YEAR.		
Kali.	Śaka.	Chaitradi Vikrama.	Mēshādi solar year in Bengal.	Kollam.	A.D.	JOVIAN SA Southern system.	MVATSABA. Northern system.	Mean intercalated (adhika) lunar month.
1	2	3	3a	1.4	5	6	7	8a
4071 4072 4073 4074 4075 4076	892 893 894 895 896 897	1027 1028 1029 1030 1031 1032 1033	376 377 378 379 380 381 382	144-45 145-48 146-47 147-48 149-49 149-50 150-51	969-70 970-71 971-72 *972-73 973-74 974-75 975-76	3 Šukla 4 Pramoda	4 Pramöda 5 Prajāpati 6 Argiras 7 Śrimukha 8 Bhāva 9 Yuvan 10 Dhātri	7 Aivina
4078	899	1034	383	151-52	+976-77	10 Dhātri	11 Ikvara .	- 12 Phälguna .
4079	900	1035	884	152-53	077-78	11 Iśvara	12 Bahudhānya	. 22
4080	901	1036	885	153-54	978-79	12 Bahndhānya .	13 Pramithin	
4081	902	1037	386	154-55	979-80	13 Pramathin .	14 Vikrama	- 9 Margadira .
4082	903	1038	387	155-56	*980-81	14 Vikrama	15 Vrishn .	200
4083	904	1039	388	156-57	981-82	13 Vrisha	16 Chitrabhana	- 1
4084	905	1040	389	157-58	982-83	16 Chitrabhanu .	17 Subhānu	5 Srāvaņa
4085	906	1041	390	158-59	983-84	17 Subhānu ,	18 Tárapa	
4080	907	1042	391	150-60	*984-85	18 Tarana	19 Pärthiva	
4087	908	1043	392	160-61	985-86	19 Pärthiva	20 Vynya . 21 Sarvajit .	- 2 Vnišákhn .
4089	910			162-63	987-88		22 Sarvadhārin	
4090	911	1046	395	163-64	*988-89	22 Sarvadhārin .	23 Virodhin	- 10 Pauslin
4001	912	1047	1000	164-65	989-90	23 Virôdhin .	A	
4092	913	1048	897	165-66	990-91	34 Vikgita		- 7 Advina
4003	914	1049	398	166-67	901-92	25 Khara		2
4094	915	1050	899	167-68	*992-93	26 Nandana	28 Jaya .	
4095	916	1051	400	168-69	990-94	27 Vijaya	The same of	3 djështha .

^{† 25} Khara was suppressed in the north by the Brahma-Siddhanta system, whether calculated by "true" or mean reckoning.

XC-contd.

T			CO	MME	NCE	EMEN	T OF THE			1	
-	Δ	[HAN	SOLAR YEAR.				MEAN LUNI-SOLAT	e year (me	IAN S	UNRISE OF THE UKLA 1 ENDS).	Kali.
	Day and mon	th,	Week-day.	1000	fime in Mi inkrä	čahn-	Day and month, A.D.	Week-c	lay.	a (here = t, the index of the tithi).	
	13		14		17		19	20		23	1
95	3 Mar. (82) .		3 Tues.	H.	M. 10	8.	69 TF (601)		T		
	1 Mar. (83)						22 Mar. (81)	2 Mon.	.50	309-5135	4071
			27 2572	93	22	39	11 Mar. (70) .	6 Fri.	- 50	185-2364	4072
10	Mar. (83) . Mar. (83) .		6 Fri	14	46	48	28 Feb. (59) .	12/4/20		60-9593	4073
1000	A CREATE CONTRACT		ACCEPTED 181	20	59	57	18 Mar. (78) .	10000	- 2	95-6416	4074
100	A CONTRACTOR OF THE PARTY OF TH		Market Land			6	8 Mar. (67) .	0 Sat.	*	309-9964	4075
	Mar. (83) .		1 market 1 m	3	11	15	25 Feb. (56) .	4 Wed.	*	185-7193	4076
100		1944	4 Wod.	9	23	24	16 Mar. (75)	3 Tues.		220-4016	4077
	3 Mar. (83) .	- 1	5 Thur.	15	35	33:	4 Mar. (64) ,	0 Sat.	-	96-1245	4078
	Mar. (82) .		6 Fri.	21	47	42	23 Mar. (82)	6 Fri.	(4)	130-8069	4079
	Mar. (83) .	13	1 Sun.	3	50	51	12 Mar. (71) .	3 Tues.	110	6-5298	4080
	Mar. (83) ,	15	2 Mon.	10	12	0	2 Mar. (61) .	1 Sun.	14	220-8845	4681
100	3 Mar. (83)	- 12	3 Tuos.	16:	24	9	20 Mar. (80) .	0 Sat.	24	255-5669	4082
	Mar. (82) .		4 Wod.	22	360	18	9 Mar. (68)	4 Wed.	22	131-2898	4083
	Mar. (83) .	.9	6 Fri.	4	48	27	26 Feb. (57) .	1 Sun.	1	7-0127	4054
	Mar. (83)	140	0 Sat.	11	0	36	17 Mar. (76)	0 Sat.	14	41-6950	4065
1	Mar. (83) .	3	I Sun	17	12	45	6 Mag. (66) .	5 Thur.	10	256-0499	4086
23	Mar. (82) ,	2	2 Mon	23	24	54	23 Feb. (54) .	2 Mon.		131-7727	4087
24	Mar. (83) ,	8	4 Wed.	5	37	3	14 Mar. (73) .	1 Sun.		166-4550	4088
24	Mar. (83) .		5 Thur	11	49	12	3 Mar. (62)	5 Thur.		42:1779	4089
23	Mar. (83) ,	1	6 Fri.	18	1	21	21 Mar. (81)	4 Wed.		76-8603	4000
24	Mar. (83) .	2	1 San	0	13	30	11 Mar. (70)	2 Mon.		291-2152	4091
24	Mar. (83) .	- 0:	2 Mon	6	25	39	28 Feb. (59) .	6 Pri.		166-9398	4092
24	Mar. (83) ,	-	3 Tues.	12	37	48	19 Mar. (78)	5 Thur.		201-6204	4093
23	Mar. (83) ,	- 67	4 Wel.	18	49 3	57	7 Mar, (67)	2 Mon.		77-3432	4094
24	bîar. (83) .		6 Pri.	1	2	6	25 Feli. (56)	0 Sat.		291-6980	4095

917 918 919 920	Chaltridi Vikramu 3 1052 1053	Meshill solar year in Bengal,	Kollam. 4 169-70	A.D.	Southern system.	Northern system.	Mean intervalated (adhika) lunar month.
917 918 919	1052	401		5	6	7	
918 919	1053	1000	169-70				8a
921 922 923 924 925 926 927 928 929 930	1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066	403 404 405 406 407 408 409 410 411 412 413 414	170-71 171-72 172-73 173-74 174-75 175-76 176-77 177-78 179-90 180-81 181-82 182-83 183-84	994-95 995-96 *996-97 997-98 998-99 999-1000 *1000-01 1001-02 1002-03 1003-04 *1004-05 1005-06 1006-07 1007-08 *1008-09	28 Jaya	30 Duraukha . 31 Hemalamba . 32 Vilamba . 33 Vikarin 34 Śārvarin 35 Plava 36 Śubhakrit . 37 Śōbhana . 38 Krödhin . 39 Viśvāvasu . 40 Parābhava . 41 Plavanga . 42 Kilaka 43 Saumya .	12 Phālguna
932	1067	416	184-85	1009-10	43 Samnya	45 Virôdhakrit .	7 Aśvina† .
933 934 935 936 937 938 949 940	1068 1069 1070 1071 1072 1073 1074 1075	418 419 420 421 422 423 424 425	185-86 186-87 187-88 188-89 189-90 190-91 191-92 192-93 193-94	1010-11 1011-12 *1012-13 1013-14 1014-15 1015-16 *1016-17 1017-18 1018-19	45 Virôdhakrit . 46 Paridhāvin . 47 Pramādin . 48 Ānanda 49 Rākshasa . 50 Ānala	52 Kālayukta . 53 Siddhārthin .	3 Jyështha
	924 925 926 927 928 929 930 931 932 933 934 935 936 937 938	924 1059 925 1060 926 1061 927 1062 928 1063 929 1064 930 1065 931 1066 932 1067 933 1068 934 1069 935 1070 936 1071 937 1072 938 1073 939 1074	924 1059 408 925 1060 409 926 1061 410 927 1062 411 928 1063 412 929 1064 413 930 1065 414 931 1066 415 932 1067 416 933 1068 417 934 1069 418 935 1070 419 936 1071 420 937 1072 421 938 1073 422 939 1074 423 940 1075 424	924 1059 408 176-77 925 1060 409 177-78 926 1061 410 178-79 927 1062 411 179-80 928 1063 412 180-81 929 1064 413 181-82 930 1065 414 182-83 931 1066 415 183-84 932 1067 416 184-85 933 1068 417 185-86 934 1069 418 186-87 935 1070 419 187-88 936 1071 420 188-89 937 1072 421 189-90 938 1073 422 190-91 939 1074 423 101-92 940 1075 424 192-93	924 1059 408 176-77 1001-02 925 1060 409 177-78 1002-03 926 1061 410 178-79 1003-04 927 1062 411 179-80 *1004-05 928 1063 412 180-81 1005-06 929 1064 413 181-82 1006-07 930 1065 414 182-83 1007-08 931 1066 415 183-84 *1008-09 932 1067 416 184-85 1009-10 933 1068 417 185-86 1010-11 934 1069 418 186-87 1011-12 935 1070 419 187-88 *1012-13 936 1071 420 188-89 1013-14 937 1072 421 189-90 1014-15 938 1073 422 190-91 1015-16 939 1074 <	924 1059 408 176-77 1001-02 35 Plava . 925 1060 409 177-78 1002-03 36 Šubhakrit . 926 1061 410 178-79 1003-04 37 Šöbhana . 927 1062 411 179-80 *1004-05 38 Kródhin . 928 1063 412 180-81 1005-06 39 Višvāvnau . 929 1064 413 181-82 1006-07 40 Parābhava . 930 1065 414 182-83 1007-08 41 Plavanga . 931 1066 415 183-84 *1008-09 42 Kilaka . 932 1067 416 184-85 1009-10 43 Sanmya . 933 1068 417 185-86 1010-11 44 Sādhāraņa . 934 1069 418 186-87 1011-12 45 Virôdhakrit . 935 1070	924 1059 408 176-77 1001-02 35 Plava

+ See " Lemarks," p. 523 above.

			()()		NT OF THE	EME	ENC	MM	co		
Kali.	NRISE OF THE ELA 1 ENDS).	n su A śu	RAS (MEAT H CHAPTE	LAR XI WHICE	MEAN LUNI-SO CIVIL DAY ON				OLAR YEAR.	HAN	М
	st (here = t, the index of the tithi).	ay.	Wook-da	ith,	Day and mor	sha-	ime e n Mê nkră	men	Week-day.	G.	Day and month
1	23		20		19		17		14		13
-U.S.						s.	М.	н.			
4096	326-3804		6 Fri.	1 2	16 Mar. (75)	15	14	7	0 Sat.	-	24 Mar. (83) .
4097	202-1033	-	3 Tues.	- 4	5 Mar. (64)	24	26	13	I Sun.	*	24 Mar. (83) .
4098	236:7856		2 Mon.	4	23 Mar. (83)	33	38	19	2 Mon.		23 Mar. (83) .
4099	112-5085		6 Fri.		12 Mar. (71)	42	50	1	4 Wed.	1	24 Mar. (83) .
4100	326-8633	*	4 Wed.	31	2 Mar. (61)	51	2	8	5 Thur		24 Mar. (83) .
4101	22-9136		2 Mon.	(2)	20 Mar. (79)	0	15	14	6 Fri.		24 Mar. (83) .
4102	237-2685	(0)	0 Sat.		9 Mar. (69)	9	27	20	0 Sat		23 Mar. (83) .
4103	112-9914		4 Wed.	134	26 Feb. (57)	18	39	2	2 Mon		24 Mar. (83) .
4104	147:6737	1.0	3 Tues.	14	17 Mar. (76)	27	51	8	3 Tues		24 Mar. (83) .
4105	23-3966		0 Sat.	00	6 Mar. (65)	36	3	15	4 Wed	* *	24 Mar. (83) .
4106	237-7514		5 Thur.	136	24 Feb. (55)	45	15	21	5 Thur		23 Mar. (83) .
4107	272-4338		4 Wed.	1.5	14 Mar. (73)	54	27	3	0 Sat		24 Mar. (83) .
4108	148 1566		1 Sun.		3 Mar. (62)	3	40	9	1 Sun	77	24 Mar. (83) .
4109	182-8390	2	0 Sat.	q	22 Mar. (81)	12	52	15	2 Mon.	- 4	24 Mar. (83) .
4110	58-5618		4 Wed.	13	10 Mar. (70)	21	4	22	3 Tues.	*	23 Mar. (83) .
4111	272-9167		2 Mon>	7.6	28 Feb. (59)	30	16	4	5 Thur		24 Mar. (83) .
4112	307-5991	2	1 Sun.	31	19 Mar. (78)	39	28	10	6 Fri		24 Mar. (83) .
4113	183-3219		5 Thur,		8 Mar. (67)	48	40	16	0 Sat		24 Mar. (83) .
4114	59-0447	3.00	2 Mon.		25 Feb. (56)	57	52	22	1 Sun		23 Mar. (83) .
4115	93-7270	16	1 Sun.) a	15 Mar. (74)	6	.5.	5	3 Tues.	- 30	24 Mar. (83) .
4116	308-0820		6 Fri.	-	5 Mar. (64)	15	17	11	4 Wod	4	24 Mar. (83) .
4117	4.1323	10	4 Wed.	12	23 Mar. (82)	24	29	17	5 Thur		24 Mar. (83) .
4118	218'4872'	150	2 Mon.		12 Mar. (72)	33	41	23	6 Fri	7	23 Mar. (83) .
4119	94-2100		6 Fri.		1 Mar. (60)	42	53	5	1 Sun		24 Mar. (83) .
4120	128-8924	1	5 Thur,		20 Mar. (79)	51	5	12	2 Mon.		24 Mar. (83) .

TABLE

Kali. Saka. Kollam. A.D. Southern system. Northern system. Southern system. Northern system.	Mean atercalated bikes) lumar month. Sa
4121 942 1077 426 194-95 1019-20 53 Siddhārthin . 55 Durmati	rāvaņa .
4122 943 1078 427 195-96 *1020-21 54 Raudra . 56 Dundubhi . 5 Ši 4123 944 1079 428 196-97 1021-22 55 Durmati 57 Rudhirōdgārin . 4124 945 1080 429 197-98 1022-23 56 Dundubhi . 58 Raktāksha .	rāvaņa .
ATTAC TO A TOTAL T	647 6
	haitm .
4126 947 1082 431 199-200 *1024-25 58 Raktiiksha . 60 Kshaya	I tota
1100 000 100	ausha .
4190 050 1007 494 909 09 1007 90 1 11-11	777
The same the same of the control of the same of the sa	hādrapada .
4131 952 1087 436 204-05 1029-30 3 Sukla . , 5 Prajāpati	
4132 953 1088 437 205-06 1030-31 4 Pramoda . 6 Angiras .	
	yeshtha .
4134 955 1090 430 207-08 *1032-33 6 Angiras 8 Bhāva	tes
4135 956 1091 440 208-00 1033-34 7 Śrimnkha . 9 Yuvan 11 M	ligha .
4136 957 1092 441 209-10 1034-35 8 Bhāva 10 Dhātri	174
4137 958 1003 442 210-11 1035-36 9 Yavan 11 Isvara	1000
4138 959 1094 443 211-12 *1036-37 10 Dhátri 12 Bahudhánya . 8 K	árttíka .
4139 960 1095 444 212-13 1037-38 11 livara 13 Pramathin .	***
4140 961 1006 445 213-14 1038-39 12 Bahudhanya , 14 Vikrama .	cen
4141 962 1097 446 214-15 1009-40 13 Pramathin . 15 Vrisha 4 A	shireles .
4343 963 1008 447 215-16 *1040-41 14 Vikrama 16 Chitrabhana .	244
4143 964 1009 448 216-17 1041-42 15 Vrisha 17 Subhānu .	
4144 965 1100 449 217-18 1042-43 16 Chitrabhānu , 18 Tāraņa 1 Cl	haitra .
4145 966 1101 450 218-19 1043-44 17 Subhāna . 19 Pārthiya .	

XC-contd.

	_		_	_	-		_		_		
M	RAN 8	OLAH YEAR.				MEAN LUNI-SOLAR O	VEA	в (меа Спатъ	N ST	NRISE OF THE IKLA 1 ENDS).	Kali.
Day and mont	h,	Week-day.	1	Time near 3 samks	féshin-	Day and month, A.D.		Week-d	ny.	a Chere-t, the index of the tithe).	
13		14		17		19	İ	20	3	23	1
24 Mar. (83) .		3 Tues.	Ш	H. M		9 Mar. (68)	13	Mon.		4-6131	4121
24 Mar. (84)	100	- 11566		0 30	9	27 Feb. (58)		Sat.	MI	218-9701	4122
24 Mar. (83)		0.000.07		6 45		17 Mar. (76)	11	Fri.	20	253-6525	4123
24 Mar. (83) .		0 Sat.	l.	12 54		6 Mar. (65)	100	Tues.		129-3753	4124
24 Mar. (83) .		1 Sun.		19 6		23 Feb. (54) .	100	Ent.		5.0981	4125
24 Mar. (84) .		3 Tues.		1 18	45	13 Mar. (73)	0	Fri.		39-7806	4129
24 Mar. (83) .	-	CHI LAMANA	1	7 30	54	3 Mar. (62) .	4	Wed.		254:1354	4127
24 Mar. (83) .		5 Thur.	İ	13 43	3	22 Mar. (81)	1	Tnes.	100	288-8177	412
24 Mar. (83) .		6 Fri.		19 55	12	11 Mag. (70)		Sat.	-	164-5406	412
64 Mar. (84) .	-	1 Sun.		2 7	- 21	28 Feb. (59)	1	Wed.	100	40-2635	413
24 Mar. (83) .		2 Mon.		8 19	30	18 Mar. (77) .	18	Tues.		74-9458	413
24 Mar. (83) .		3 Tues.		4 31	30	8 Mar. (67)	1	Sun.		289-3006	413
24 Mar. (83)		4 Wed.		20 43	48	25 Feb. (56) .	. 5	Thur,		165-0235	413
Mar. (84)	125	6 Fri.	1	2 55	57	15 Mar. (75)	1	Wed.	74	199-7059	413
Mar. (83) .	(4)	0 Sat.		0 8	6	4 Mar. (63)	1	Sun.	78	75:4287	413
4 Mar. (88) .		1 Sun.	1	5 20	15	23 Mar. (82) .	6	Sat.		1101111	413
4 Mar. (83) .	.57	2 Mon-		1 32	24	13 Mar. (72) .	5	Thur.	Ŋ,	224:4660	413
4 Mar. (84) .		4 Wed.	1	3 44	33	1 Mar. (61)	2	Mon.		200-1888	4133
4 Mar. (83) .	2	5 Thur.		9 56	42	20 Mar. (79)	1	Sun.	-	234-8712	413
14 Mar. (83) .		6 Fri.	10	6. 8	-51	9 Mar. (68)	- 5	Thur.	Ta.	110-5940	414
4 Mar. (83) .		0 Sat	1	22 21	0	27 Feb. (58) .	3	Tues.		024:9489	414
4 Mar. (84)		2 Mon.	-	4 33	ò	16 Mar. (76) .	1	Sun.		20-9993	414
4 Mar. (88) .		3 Tnes.		0 45	18	6 Mar. (65)	6	Fri.	1	285-8541	414
4 Mar. (83) .		4 Wei,	1	d 57	27	23 Feb. (54)	3	Tues.		111-0793	414
4 Mar. (83) .		5 Thur.	13	13 9	36	14 Mar. (73) .	2	Men.		145-7590	414

TABLE

				CON	CURRENT	YEAR,			
		rama.	year in	4714	470	JOVIAN S	AMVATSABA.		Mean intercalated (adhika) lunar
Kali.	Śaka.	Chaitradi Vikrama.	Mëshëdi solar Bengal.	Kollani.	A.D.	Southern system.	Northern aystom.		month,
1	2	3	3a	4	5	6	7		8a
4146	967	1102	451	219-20	*1044-45	18 Tāraņa	20 Vyaya .		9 Mārgašīra .
4147	968	1103	452	220-21	1045-46	19 Pärthiva .	21 Sarvajit		1744
4148	969	1104	453	221-22	1046-47	20 Vyaya	22 Sarvadhārin	7	- 144
4149	970	1105	454	222-23	1047-48	21 Sarvajit	23 Virödhin	¥	6 Bhādrapada .
4150	971	1106	455	223-24	*1048-49	22 Sarvadhārin .	24 Vikrita .		144
4151	972	1107	456	224-25	1049-50	23 Virôdhin .	25 Khara .		+0
4152	973	1108	457	225-26	1050-51	24 Vikrita	26 Nandana		3 Jyështha .
4153	974	1109	458	226-27	1051-52	25 Khara	27 Vijaya .		
4154	975	1110	459	227-28	*1052-53	26 Nandana ,	28 Jaya .		11 Mägha .
4155	976	1111	460	228-29	1053-54	27 Vijaya	29 Manmatha	1	4
4156	977	1112	461	229-30	1054-55	28 Jaya	30 Durmukha	9	
4157	978	1113	462	230-31	1055-56	29 Manmatha .	31 Hēmalamba	19	8 Kärttika .
4158	979	1114	463	231-32	*1056-57	30 Durmukha	32 Vilamba		
4159	980	117,5	464	232-23	1057-58	31 Hēmalamba .	. 33 Vikārin .	18.	100
4160	981	1116	465	233-34	1058-59	32 Vilamba	34 Sărvarin	-	4 Āshāḍh s .
4161	982	1117	466	234-35	1059-60	33 Vikārin	35 Plays	14	
4162	983	1118	467	235-36	*1060-61	34 Sărvarin	36 Subbakrit	6	
4163	984	1119	468	236-37	1061-62	35 Plays	. 37 Söbhana		1 Chaitra .
4164	985	1120	469	237-38	1062-63	36 Śubbakrit	. 38 Krödhin		
4165	986	1121	470	238-39	1063-64	37 Šõbhana	39 Višvāvasu	1+	9 Mārgadīra .
4166	987	1192	471	239-40	*1064-65	38 Kvődhin	. 40 Parābhava		The state of the s
4167	988	1123	472	240-41	1065-66	39 Viávávasu	. 41 Playanga	74	F
4168	989	1124	478	241-42	1066-67	40 Parábhava	42 Kilaka .	22	6 Bhidrapada .
4159	990	1125	474	242-43	1067-68	41 Plavanga	. 43 Sanmya		20
4170	991	1126	475	243-44	*1068-69	42 Kilaka	44 Sadharana		***

XC-contd.

1/9		_		_						_		
				СОМ	MEN	CEM	ENT OF THE			•		
	30	EAN	SOLAR YEAR.		7		MEAN LUNI-SON	LAR	YEAR (MEA IOH CHAITE	n st	UNRISE OF THE UNLA 1 ENDS).	
	Day and month		Week-day.		Time oan M azirkr	lėsha-	Day and mon A.D.	tb,	Week-da	y.	a (here=t, the index of the tithi).	Kali.
	13		14		17		19		20	H	23	1
1				I	I. M.	S.						
١	24 Mar. (84) .	45.	0 Sat.	1	21	45	2 Mar. (62)		6 Fri.	-	21:4821	4146
1	24 Mar. (83) .		1 Sun	11	33	54	21 Mar. (80)		5 Thur,		56.1645	4147
١	24 Mar. (83) .	4	2 Mon	17	46	3	11 Mar. (70)	9	3 Tues.	1	270-5194	4148
ı	24 Mar. (83) .		3 Tues	20	58	12	28 Feb. (59)	-7	0 Sat.	-	146-2422	4149
ı	24 Mar. (84) .	-	5 Thur	6	10	21	18 Mar. (78)		6 Fri.	19	180 9246	4150
ı	24 Mar. (83) .	2	6 Fri	12	22	30	7 Mar, (66)	(*)	3 Tues.	19	56-6475	4151
ı	24 Mar. (83) .		0 Sat	18	34	39	25 Feb. (56)		1 Sun.		271-0023	4152
ı	25 Mar. (S4) .	151	2 Mon	0	46	48	16 Mar. (75)	1	0 Sat.		305-6846	4153
ı	24 Mar. (84) .	*	3 Tues	6	58	57	4 Mar. (64)	1	4 Wed.	3	181-4075	4154
١	24 Mar. (83) .	٠	4 Wed	13	11	6	23 Mar. (82)	54	3 Tues.		216-0899	4155
ı	24 Mar. (83) .		5 Thur	19	23	15	12 Mar. (71)	-4	9 Sat.		91-8127	4156
ı	25 Mar. (84) .		0 Sat	1	35	24	2 Mar. (61)	()	5 Thur.		306-1675	4157
ı	24 Mar. (84) .		1 Sun	7	47	33	19 Mar. (79)		3 Tues.		2-2180	4158
k	24 Mar. (83) .		2 Mon	13	59	42	9 Mnr. (68)	3	1 Sun.		216-5728	4159
l	24 Mar. (83) .		3 Tues	20	-11	51	26 Feb. (57)	4	5 Thur.		92-2956	4160
l	25 Mar. (84) .		5 Thur	2	24	0	17 Mar. (76)	7,	4 Wed.		126-9780	4161
	24 Mar. (84) .		6 Fri	8	36	9	5 Mar. (65)		1 Sun		2-7009	4162
	34 Mar. (83) .		0 Sat	14	48	18	23 Feb. (54)		6 Fri.		217-0556	4163
	24 Mar. (83) .		1 Sun	21	0	27	14 Mar. (73)		5 Thur.		251-7380	4164
1	5 Mar. (84) .		3 Tues.	÷	12	36	3 Mar. (62)		2 Mon.		127-4609	4165
	4 Mar. (84) .		4 Wed.	9	24	45	21 Mar. (81)		1 San.		162:1433	4166
1	4 Mar. (83) .		5 Thur	15	36	54	10 Mar. (69)		5 Thur.		37-8561	4167
1	4 Mar. (83) .	-1	6 Fri	21	40	3	28 Feb. (59)		3 Tuce.		252-2210	4168
	5 Mar. (84) .		1 San	4	1	12	19 Mar. (78)	,	2 Mon.		286-9051	4169
10	4 Mar. (84)	- 1	2 Mon	10	13	21	7 Mar. (67)		6 Fri.		162 6262	4170

TABLE

SE			-					
				CONC	URRENT Y	EAR.		
Kali.	Saka.	Chaitradi Vikrama.	Mēshādi solar year in Bengal,	Kollam.	A.D.	JOVIAN SAN	Northern system.	Mean interculated (adhiku) lunar month.
1	2	3	34	4	5	6	7	8a
4171 4172 4173 4174 4175 4176 4176 4177 4178 4179 4180 4181 4182 4183 4184 4185 4185 4186 4187	992 993 994 995 996 997 998 299 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010	1127 1128 1129 1120 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142	476 477 473 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495	244-45 245-46 246-47 247-48 248-49 249-50 250-51 251-52 252-53 253-54 254-55 256-57 257-58 258-59 259-60 260-61 261-62 262-63 253-64	1069-70 1070-71 1071-72 *1072-73 1073-74 1074-75 1075-76 *1076-77 1077-78 1079-80 *1080-81 1081-82 1083-84 *1084-85 1085-86 1086-87 1087-88 *1088-89	43 Sanmya	45 Virödhakrit . 46 Paridhāvin . 47 Pramādin 48 Ānanda . 49 Rākshasa . 50 Ānala † . 52 Kālayukta . 53 Siddhārthin . 54 Raudra . 55 Durmati . 56 Durmati . 57 Rudhirödgārin . 58 Raktāhaha . 59 Krödhana . 60 Kahaya . 1 Prabbava . 2 Vibhava . 3 Šukla 4 Pramöda . 5 Prajāpati .	2 Vnišākha
4191	1012	127000	-	264-65	1089-90	3 Sukia	The same of the sa	2 Vaisākha .
4192 4193 4194	1013 1014 1015	1148 1149 1150	497 498 499	265-66 266-67 267-68	1090-91 1091-92 *1092-93	4 Pramoda . 5 Prajāpati . 6 Angiras .	7 Śrimukha	11 Mägha
4195	1016	1		268-69	1093-94	7 Srimukha .	10 Dhātri	7 Asvina .

^{1 51} Pingala was suppressed in the north, seconding to both "true" and mean systems, in Brahma-Siddhania

XC-contd.

					ENT OF THE	EME	ENC	OM	co		
Kali.					MEAN LUNI-SOI CIVIL DAY ON				SOLAR YEAR.	AN	Mu
	a (here = t, the index of the tithi).	y.	Week-da	nth,	Day and mon A.D.	shu-	lime o an Mê mkrăi		Week-day.	,	Day and month
1	23		20		19		17		14		13
				77		S.	. м.				
417	28:3490		3 Tues.	*	24 Feb. (55)	30	25	1	3 Tues	100	4 Mar. (83) .
417	73-0314		2 Mon.		15 Mar. (74)	39	37	2	4 Wed.	-	4 Mar. (83) .
4173	287:3863	-	0 Fat.	*5	5 Mar. (64)	48	49		6 Fri	9	5 Mac. (84) .
4174	122:0086	:	6 Fri.	*	23 Mar. (83)	57	1	1	0 Sat	7.5	4 Mar. (84) .
4170	197-7915	:9	3 Tnes.		12 Mar. (71)	6	14	1	1 Sun		4 Mar. (83) .
4176	73-5143	4	0 Sat.		1 Mar. (60)	15	2/3	9	2 Mon	8	4 Mar. (83) .
4177	108-1967	9	6 Fri.		20 Mar. (79)	24	38		4 Wed	- 2	5 Mar. (84) .
4178	322 5515	5	4 Wed.		9 Mar. (69)	33	50	1	5 Thur		4 Mar. (84) +
4179	198-2744		I Sun.	*	26 Feb. (57)	-12	2	1	6 Fri.	14	4 Mar. (83) .
4180	232-9568	3+	0 Sat.		17 Mar (75)	51	14	1	1 Sun.		5 Mar. (84) .
4181	108-6796	4	4 Wed.		6 Mar. (65)	0	27	-3	2 Mon		5 Mar. (84) .
4181	143-3620	27	3 Tues.	11.0	24 Mar. (84)	9	39	1	3 Tues		4 Mar. (84) .
4183	19-0848	4	0 Sat.	110	13 Mar. (72)	18	51	1	4 Wed.	*	4 Mar. (83) .
4184	233-4397	4	5 Thur.	100	3 Mar. (62)	27	3	2	6 Fri.	4	5 Mar. (84) .
4187	268-1220	94	4 Wed.		22 Mar. (81)	36	15	139	0 Sat		5 Mar. (84) .
4186	143-8449		1 Sun.	HLA:	10 Mar. (70)	45	27	1	1 Sun	*	4 Mar. (84) .
4187	19-5678		5 Thur.	0.5	27 Feb. (58)	54	39	1	2 Mon	*	4 Mar. (83) .
4188	54:2501		4 Wed.		18 Mar. (77)	3	52	1	4 Wed	2	5 Mar. (84) .
4189	268-6050		2 Mon.	1174	8 Mar. (67)	12	4	19	5 Thur		5 Mar. (84) .
4190	144:3278	4	6 Fri.		25 Feb. (56)	21	16	1	6 Fri	î	Mnr. (84) .
4197	179-0102		5 Thur.	11.00	15 Mnr. (74)	30	28	10	0 Sat	٠	Mar. (83) .
41102	54-7330				4 Mar. (63)	39			2 Mon	-	Mar. (84) .
4193	89-4154				23 Mar. (82)	48	52		3 Tues		Mar. (84) .
4191	203-7700	3	6 Pri.		12 Mar. (72)	57		500	S CONTRACT OF	- •	Mar. (84) .
4105	179-4930	120	3 Tues.	110	1 Mar. (60)	6	17	2	5 Thur		Mar. (83) .

			-	CONC	URRENT Y	EAR.		
Kali.	Saka.	Chaltridi Vikrama.	Mēshādi solar year in Bengal.	Kollain.	A.D.	Jovian Sa Southern system.	Northern system.	Mean intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	8a
1 4196 4197 4198 4199 4200 4201 4202 4203 4204 4205 4206 4207 4208 4209 4210 4211 4212 4218 4214 4215 4216	1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036	3 1153 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1170 1171	501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520	4 269-70 270-71 271-72 272-73 273-74 274-75 275-76 276-77 277-78 278-79 279-80 280-81 281-82 282-83 283-84 284-85 286-87 287-88 288-89 289-90	5 1094-95 1095-96 *1096-97 1097-98 1008-99 1009-1100 *1100-01 1101-02 1102-03 1103-04 *1104-05 1105-06 1105-06 1106-07 1107-08 *1108-09 1109-10 1111-12 *1112-13 1113-14 1114-15	8 Bhāva 9 Yuvan	11 Isvara	9 Mārgašīra
4217 4218 4219 4220	1038 1039 1040 1041	1178 1174 1175 1176	522 523 524 525	290-91 291-92 292-93 293-94	1115-16 *1116-17 1117-18 1118-19	29 Manmatha . 20 Durmukha . 31 Hémalamba . 32 Vilamba .	32 Vilamba 33 Vikārin	3 Jyčshtha

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Mi	EAN	SOLAR YRAN.				MEAN LUNI-SOLAR I			Kali,
Day and month		Week-day.	mea	ime n Mi	sha-	Day and month, A.D.	Week-day.	a (here = t, the index of the tithi).	
13 -		14		17		19	_20	23	1
25 Mar. (84) .		0 Sat	Н,	M. 29	S. 15	20 Mar. (79) .	2 Mon.	214-1755	419
25 Mar. (84) .	4	1 Sun	9	41	24	9 Mar. (68)	6 Fri.	89-8983	419
24 Mar. (84) .		2 Mon	15	53	33	27 Feb. (58) .	4 Wed.	304-2531	419
24 Mar. (83) .	27/4	3 Tues	22	5	42	16 Mar. (75) .	2 Mon.	0.3035	419
25 Mar. (84) .		5 Thur	4	17	51	6 Mar. (65)	0 Sat.	214-6584	420
25 Mar. (84) .	-	6 Fri	10	30	0	25 Mar. (84) .	6 Fri.	249-3408	420
24 Mar. (84) .	V	0 Sat	16	42	9	13 Mar. (78) .	3 Tues.	125-0637	420
24 Mar. (83) .		1 San	22	54	18	2 Mar. (61)	0 Sat.	0.7865	420
25 Mar. (84) .		3 Tues	5	6	27	21 Mar. (80) .	6 Fri.	35-4689	420
5 Mar. (84) .		4 Wed	11	18	36	11 Mar. (70) .	4 Wed.	249-8237	420
4 Mar. (84) .		5 Thur	17	30	45	28 Feb. (59) .	1 Sun	125-5466	420
4 Mar. (83) .	33	6 Fri	23	42	54	18 Mar. (77) .	0 Sat	160-2289	420
5 Mar. (84) .	-	1 Sun	5	55	3	7 Mar. (66) .	4 Wed	35-9518	4208
5 Mar. (84) .		2 Mon	12	7	12	25 Feb. (56) .	2 Mon	250:3066	4200
4 Mar. (84) .	81	3 Tues	18	19	21	15 Mar. (75) .	1 Sun	284-9889	421
5 Mar. (84) .		5 Thur	0	31	30	4 Mar. (63) .	5 Thur	160-7118	4211
5 Mar. (84) .		6 Fri	6	43	39,	23 Mar. (82) .	4 Wed	195-3942	4211
5 Mar. (84) .		0 Sat	12	55	48	12 Mar. (71) .	1 Sun	71-1171	421
4 Mar. (84) .		1 Sun.	19	7	57	1 Mar. (61) .	6 Fri	285.4718	4214
5 Mar. (84) .	100	3 Tues	1	20	6	20 Mar. (79) .	5 Thur	320-1543	4210
5 Mar. (84) .		4 Wed	7	32	15	9 Mar. (68) .	2 Mon	195/8771	4216
5 Mar. (84) .		5 Thur	13	44	24	26 Feb. (57) .	6 Fri	71-5999	4217
4 Mar. (84) .			19	56	33	16 Mar. (76) .	5 Thur	106-2823	4218
5 Mar. (84) .	1	1 Sun.	2	8	42	6 Mar. (65) .	" Tues	320-6372	4219

TABLE

A	-	-	-				-	
				CONC	URRENT	YEAR,	Maria Cara	
Kali.	Śaka.	Chaitradi Vikrama.	Mëshadi solar year in Bengul.	Kollam.	A.D.	JOVIAN SA Southern system.	MVATSARA. Northern system.	Mean intercalated (adhika) lunar month.
1	2	3	3a	4	5	6	7	8a
4221 4222 4223 4224 4225 4226 4227 4228 4229 4230 4231 4232 4233 4234 4235 4236 4237 4238 4238	1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060	1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195	526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543	294-95 295-96 296-97 297-98 298-99 299-300 300-01 301-02 302-03 303-04 304-05 305-06 306-07 307-08 308-09 309-10 310-11 311-12 312-13	1119-20 *1120-21 1121-22 1122-23 1123-24 *1124-25 1125-26 1125-26 1125-29 1125-29 1129-30 1130-31 1131-32 *1132-33 1133-34 1134-35 1135-36 *1136-37- 1137-38	33 Vikārin	36 Subhakrit . 37 Söbhana . 38 Krödhin . 39 Visvāvasu . 40 Parābhava . 41 Plavanga . 42 Kīlaka . 43 Saumya . 44 Sādhāraņa . 45 Virödhakrit . 46 Paridhāvin . 47 Pramādin . 48 Ānanda . 49 Rākshasa . 50 Ānala . 51 Pingala . 52 Kālayukta . 53 Siddhārthin .	8 Kārttika
4240 4241 4212	1061 1032 1063	1196 1197 1198	545 546 547	313-14 314-15 315-16	1138-39 1139-40 *1140-41	54 Randra	55 Durmasi	8 Kārttika
4243 4214 4245	1064 1065 1066	1100 1200 1201	548 549 550	316-17 317-18 318-19	1141-42 1142-43 1143-44	COLUMN TANKS	59 Krödhana	5 Srāvaņa .

XC-contd.

				NT OF THE	EME	ENC	ми	co			
Kuli	UNRISE OF THE UKLA 1 ENDS).	r (mean so Chaitha śu	OLAR Y	MEAN LUNI-SO				AB.	SOLAR YES	AN	Ma
Kall	a (here - t, the index of the tith;).	Veek-day.	nth.	Day and mo	čsha-	imo in M inkrå	me	ay.	Week-da		Pay and month
1	23	20		19		17			14		13
		Fri.		14 Mar. (73)	S. 0	M.	H. 14		3 Tues.		25 Mar. (84) .
4221	SECTION AND ADDRESS OF THE PARTY OF THE PART	Tnes.		2 Mar. (62)	9	45	20		4 Wed.	-1	24 Mar. (84) .
4222	106-7652	Mon.		21 Mar. (80)	18	57	9		6 Fri.	100	25 Mar. (84) .
4223	17:1704	Fri.		10 Mar. (69)	27	9	9		0 Sat.	100	25 Mar. (84) .
4225	231-5253	Wed.		28 Feb. (59)	36	21	15	+1	1 Sun.	- 30	25 Mar. (84) .
4226	266-2077	Tues.		18 Mar. (78)	45	33	21		2 Mon.		24 Mar. (84) .
4227	141-9306	Sat.	14 1	7 Mar. (66)	54	45	3		4 Wed.		25 Mar. (84) .
4228	17:6533	Wed.		24 Feb. (55)	3	58	9		5 Thurs.	,	25 Mar. (84) .
4220	52-3357	Tues		15 Mar. (74)	12	10	16		6 Fri.	2	25 Mar. (84) .
4230	266-6906	Sun.	10	4 Mar. (64)	21	22	22		0 Sat.	-	24 Mar. (84) .
4231	301-3729	Ent.	100	23 Mar. (82)	30	34	4	6	2 Mon.		25 Mar. (84) .
4232	177-0958	Wed.	12 4	12 Mar. (71)	30	46	10		3 Tues.		25 Mar. (84) .
4233	52-8186	Sun.	. 1	1 Mar. (60)	48	58	16	1	4 Wed.		25 Mar. (84) .
4234	87-5011	fat	. (19 Mar. (79)	57	10	23	3.0	5 Thurs.		24 Mar. (84) .
1235	301-8558	Thurs	0.1	9 Mar. (68)	6	23	5		0 Sat.		25 Mar. (84) .
4236	177-5787	Mon	. :	26 Feb. (57)	15	35	11		1 Sun.		25 Mar. (84) .
4237	212-2611	un.	. 1	17 Mar. (76)	24	47	17	10	2 Mon.		25 Mar. (84) .
4238	87-9840	Thurs.	· · ·	5 Mar. (65)	33	59	23	4	3 Tues.		24 Mar. (84) .
4239	122-6663	Wed	. 4	24 Mar. (83)	42	11	6		5 Thurs.		25 Mar. (84) .
4810	9998-3892 §	sun	. 1	13 Mar. (72)	51	23	12	.4	6 Pri.		25 Мат. (84) .
4241	212-7440	Pri.	. 6	3 Mar. (62)	0	36	18	17	0 Sat.	12	25 Mar. (84) .
4242	247-4264	Churs	. 6	21 Mar. (81)	9	48	0		2 Mon.	0	25 Mar. (85) .
4243	123-0492	Mon	. 2	10 Mar. (69)	18	0	7	ă.	3 Tues.	100	25 Mar. (84) .
4244	9998-8721§	M	. 6	27 Feb. (58)	27	12	13	3	4 Wod.		25 Mar. (84) .
4245	38-5545	Churs	. 5	18 Mar. (77)	36	24	19	Q.	5 Thurs.	-	25 Mar. (84) .

§ Chaitra sukla 1 was suppressed.

				CONC	URRENT	YEAR.		
		Vikrama.	solar year in		1000	Jovian Sa	MVATSARA.	Mean intercalated (adhika) lunar
Kali.	Saka.	Chaiteadi Vi	Mëshūdi solu Bengal.	Kollam.	A.D.	Fouthern system.	Northern system.	mouth.
1	2	3	3a	4	5	6	7	84
4246	1067	1202	551	319-20	*1144-45	58 Raktāksha .	1 Prabhava	***
4247	1068	1203	552	320-21	1145-46	59 Krödhana .	2 Vibhava	1 Chaitra
4248	1069	1204	553	321-22	1146-47	60 Kshaya	3 Śukla	***
4249	1070	1205	554	322-23	1147-48	1 Prabhava .	4 Pramöda	10 Pansha
4250	1071	1206	555	323-24	*1148-49	2 Vibhava	5 Prajšpati	20 10 mm mm m 10 mm
4251	1072	1207	556	324-25	1149-50	3 Śukla	6 Angiras	4
4252	1073	1208	557	325-26	1150-51	4 Pramôda .	7 Śrimnkha .	6 Bhādrapada
4253	1074	1209	558	326-27	1151-52	5 Prajāpati .	8 Bhāva	***
4254	1075	1210	559	327-28	*1152-53	6 Angiras	9 Yuvan	***
4255	1076	1211	560	328-29	1153-54	7 Śrimukha .	10 Dhātri	3 Jyeshtha
4256	1077	1212	561	329-30	1154-55	8 Bhāva	11 Isvara	NO REPORT
4257	1078	1213	562	330-31	1155-56	9 Yuvan	12 Bahudhanya .	11 Māgha
4258	1079	1214	563	331-32	*1156-57	10 Dhätri	13 Pramādin	
4259	1080	1215	564	332-33	1157-58	11 Iśvara	14 Vikcama	744
4260	1081	1216	565	333-34	1158-59	12 Bahudhānya .	15 Vrisha	8 Kärttika
4261	1082	1217	566	334-35	1159-60	13 Pramadin	16 Chitrabhann + .	- 1549
4262	1083	1218	567	335-36	*1160-61	14 Vikrama	18 Tarana	2
4263	1084	1219	568	336-37	1161-62	15 Vrishs	19 Parthies .	5 Śrāvaņa ,
4204	1085	1220	569	337-38	1162-63	16 Chitrabhānu .	20 Vyaya	17 m
4265	1086	1221	570	338-39	1163-64	17 Subhānu .	21 Sarvajit	12:404
4266	1087	1222	571	339-40	*1164-65	The state of the s	22 Sarvadhārin .	I Chaitra .
4267	1088	1223	572	340-41	1165-66	CONTRACTOR OF THE PARTY OF THE	23 Virödhin	
4208	1089	1224	573	341-42	1166-67	NAME OF TAXABLE PARTY.		10 Pausha .
6269	1090	1225	574	342-43	1167-68		25 Khara	
4270	1091	1226	575	343-44	*1'.€8-69	22 Sarvadhārin .		***

^{† 17} Subhanu was suppressed in the north by the Brahma-Siddhanto, both in true and mean reckening.

XC-contd.

			C	OMM	EN	CEMI	ENT OF THE				
	M	EAN	SOLAR YEAR.				MEAN LUNI-SOLAR CIVIL DAY ON WHIC	TRAB (MEA	IN ST	UNKISE OF THE PELA 1 ENDS).	22020
Day an	d mont	h,	Week-day.	med	imo in Mi mkrii	čsha-	Day and month,	Wook-d	lay.	it (here = t, the index of the tith*),	Kali.
1	13		14		17		19	20		23	1
		•		н.	M.	S.			T		
25 Mar. (8		٠	0 Sat	1	36	45	7 Mar. (67) ,	3 Tues.	20	247-9093	4246
25 Mar. (8		1.2	1 Sun-	7	48	54	24 Feb. (55) .	0 Sat.	1	123-6321	4247
25 Mar. (8		-	2 Mon	14	1	3	15 Mar, (74) .	6 Fri.	*	158/3145	4248
25 Mar. (8		-	3 Tues.	20	13	12	4 Mar, (63)	3 Tues.	7.5	34-0373	4249
25 Mar. (8			5 Thurs	2	25	21	22 Mar. (82)	2 Mon.	100	68-7197	4250
25 Mar. (8			6 Fri.	8	37	30	12 Mar. (71)	0 Sat.	-	283-0746	4251
25 Мат. (8		132	0 Sat	14	49	39	1 Mar. (60)	4 Wed.	133	158-7974	4252
25 Mar. (8	4) .	95.	1 Sun	21	1	48	20 Mar. (79)	3 Tues.	-	193-4798	4253
25 Mar. (8	5) .	14	3 Tues.	3	13	57	8 Mar. (68) .	0 Sat.		69-2026	4254
25 Mar. (8	4) .		4 Wed.	9	26	6	26 Feb. (57)	5 Thur.	10	283-5575	4255
25 Mar. (8	4)	-	5 Thur.	15	38	15	17 Mar. (76) .	4 Wed.	Na	318-2398	4256
25 Mar. (8	4) .		6 Fri	21	50	24	6 Mar. (65) .	1 Sun.	190	193-9627	4257
25 Mar. (8)	5) .		1 Sun	4	2	33	24 Mar. (84) .	0 Sat.	14	228-6451	4258
25 Mar. (8	4) .		2 Mon	10	14	42	13 Mar. (72) .	4 Wed.		104:3680	4259
25 Mar. (8	4) .		3 Tues	16	26	51	3 Mar. (62) .	2 Mon.		318-7227	4260
25 Mar. (8	4) .		4 Wed	22	39	0	21 Mar. (80) ,	0 Sat.		14:7731	4261
25 Mar. (8	5) .		6 Fri	4	51	9	10 Mar. (70)	5 Thur.	-	229-1280	4262
25 Mar. (8	4) .	*	0 Sat.	11	3	18	27 Feb. (58) .	2 Mon.	14	104-8508	4263
25 Mar. (8	4) .		1 Sun	17	15	27	18 Mar. (77) .	1 Sun.		139-5332	4264
25 Mar. (8	4) .		2 Mon	23	27	36	7 Mar. (66)	5 Thur.		15-2561	4265
25 Mar. (8	5) .	4	4 Wed	5	39	45	25 Feb. (56) .	3 Tues.		£29-6109	4266
25 Mar. /8	4) .		5 Thur	11	51	54	15 Mar. (74) .	2 Mon.		264-2932	4267
25 Mar. (8-	4) .		6 Fri	18	4	3	4 Mar. (62) .	6 Fri.		140-0161	4268
26 Mar. (8)	5) .		1 San	0	16	12	23 Mar. (82)	5 Thur.	10	174-6985	4269
25 Mar. (8)			2 Mon	6	28	21	11 Mar. (71) .	2 Mon.		80-4513	4270

TABLE

				CONCL	JERENT Y	EAR.			
Kali.	Saka.	Chaiteadi Vikrama.	solar year in	Kollam.	A.D.	Jovian Sa	MVATSARA.		Mean intercalated (adhika) lunar month.
		Chaitradi	Mčshūdi s Bengul.			Southern system.	Northern system.		
1	2	3	3a	4	5	6	7		8a
4271	1092	1227	576	344-45	1169-70	23 Virôdhiu	27 Vijava .	100	6 Bhādrapada
4272	1093	1228	577	345-46	1170-71	24 Vikrita	28 Jaya .		
4273	1094	1229	578	346-47	1171-72	25 Khara	29 Manmatha		
4274	1095	1230	579	347-48	*1172-73	26 Nandana .	30 i armukha		3 Jyështha
4275	1096	1231	580	348-49	1173-74	27 Vijaya	31 Hêmalamba		
4276	1097	1232	581	349-50	1174-75	28 Jaya	32 Vilamba .	14	11 Māgha
4277	1098	1233	582	350-51	1175-76	29 Manmatha .	33 Vikārin .		7.44
4278	1099	1234	583	351-52	*1176-77	30 Durmukha .	34 Śārvarin		1944
4279	1100	1235	584	352-53	1177-78	31 Hēmalamba .	35 Plava .	130	8 Kārttika
4280	1101	1236	585	353-54	1178-79	32 Vilamba .	36 Subhakrit	-	
4281	1102	1237	586	354-55	1179-80	33 Vikārin	37 Śöbhana		200
4282	1103	1238	587	355-56	*1180-81	34 Sarvarin .	38 Krödhin	1	4 Åshādha
4283	1104	1239	588	356-57	1181-82	35 Plava	∘39 Viśvāvasu		144
4284	1105	1240	589	357-58	1182-83	36 Subhakrit .	40 Paräbhava	136	100
4285	1106	1241	590	358-59	1183-84	37 Śöbhana	41 Plavanga	134	1 Chaitra
4286	1107	1242	591	359-60	*1184-85	38 Krödhin .	42 Kilaka .		
4287	1108	1243	592	360-61	1185-86	39 Viávāvasu	43 Saumya		9 Märgasi a
4288	1100	1244	593	361-62	1186-87	40 Parābhava .	44 Sādhāraņa		
4289	1110	1245	594	362-63	1187-88	41 Plavanga .	45 Virodhakrit	15.	
4290	1111	1246	595	363-64	*1188-89	42 Kilaka	46 Paridhāvin	120	6 Bhādrapada
4291	1112	- www	5050	364-65	1189-90	43 Sammya	47 Pramādin		t ac
4292	1113			365-66	1190-91	The same of the sa	48 Anands	19	440
4293	11114			366-67	1191-92		49 Rākslinas		2 Valsākler
4294	11118	-	10000	CARLE OF	*1192-93	46 Paridhāvin .	50 Anala	100	S
4295	11116	1251	600	368-69	1193-94	47 Pramādin .	51 Pingala	10	Il Magha

Mu	AN S	OLAR YEAR.				MEAN LUNI-SOLAR T	AND THE RESERVE OF THE PARTY OF	CONTRACTOR OF THE PARTY OF THE	ADDITION OF THE PARTY OF THE PA	
Day and month	1000		mean	ime i n Më	-mile	Day and month, A.D.	Week-d		a (here=t, the index of the tithi).	Kuli.
13		14	-	17		19	20		23	1
111.50			н.	M.	8.					
25 Mar. (84) .		3 Tues	12	40	30	1 Mar. (60) .	0 Sat.		264-7762	427
25 Mar. (84) .	(4)	4 Wed	18	52	39	20 Mar. (79)	6 Fri.		299-4586	4275
26 Mar. (85) .		6 Fri	1	4	48	9 Mar. (68) .	3 Tnes.		175-1815	427
25 Mar. (85) .		0 Sat	7	16	57	26 Feb. (57) .	0 Sat.	13	50-9042	427
25 Mar. (84) .	7	1 Sun.	13	29	6	16 Mar. (75) .	6 Fri.		85-5866	427
25 Mar. (84) .	74	2 Mon	19	41	15	6 Mar. (65) .	4 Wed.		299-9415	427
26 Mar. (85) .		4 Wed	1	53	24	24 Mar. (83) .	2 Mon.	: 54	9995-9918 §	427
25 Mar. (85) .	7.	5 Thur	8	5	33	13 Mar. (73) .	0 Sat.	19	210-3467	427
25 Mar. (84) .		6 Fri	14	17	42	2 Mar. (61) .	4 Wed.		86-0695	427
25 Mar. (84) .		0 Sat	20	29	51	21 Mar. (80) .	3 Tues.		120-7519	428
26 Mar. (85) .	17	2 Mon	2	42	0	10 Mar, (69) .	0 Sat.	172	9996-4747 §	428
25 Mar. (85) .	6	3 Tues	8	54	9	28 Feb. (59) .	5 Thur.		210-8296	428
25 Mar. (84) .	-	4 Wed	15	6	18	18 Mar. (77) .	4 Wed.		245-5120	428
25 Mar. (84) .		5 Thur	21	18	27	7 Mar. (66) .	1 Sun.		121:2349	428
26 Mar. (85) .		0 Sat	3	30	36	24 Feb. (55) .	5 Thur.		9996-9576 §	428
25 Mar. (85) .		1 Sun	9	42	45	14 Mar. (74) .	4 Wed.		31-€400	428
25 Mar. (84) .		2 Mon	15	54	54	4 Mar. (63) .	2 Mon.	1 16	245-9949	428
25 Mar. (84) .		3 Tues	22	7	3	23 Mar. (82) .	I Sun.	3.0	280-6772	428
26 Mar. (85) .	i.	5 Thur.	4	19	12	12 Mar. (71) .	5 Thur.		156:4061	428
25 Mar. (85) .	14	6 Fri	10	31	21	29 Feb. (60) .	2 Mon.	85	32-1230	429
25 Mar. (84) .		0 Sat	16	43	30	19 Mar. (78) .	1 Sun.	ye.	66 8054	429
25 Mar. (84) .		1 Sun	22	55	39	9 Mar. (68)	6 Fri.	120	281-1602	429
26 Mar. (85) .		3 Tuca	5	7	48	26 Feb. (57) .	3 Tues.		156-8830	429
25 Mar. (85) .		4 Wed	11	19	67	16 Mar. (76) .	Z Mon.		191-5854	429
25 Mar. (84)	17	5 Thur	17	32	6	5 Mar. (64) .	6 Fri.		67:2882	429

TABLE

Kali. Saka.	Mean intercalated (adhika) lunar month.
Kali. Saka	intercalated (adhika) lunar month. 84
1 2 3 34 4 5 6 7 4296 1117 1252 601 369-70 1194-95 48 Ånanda 52 Kålayukta 4297 1118 1253 602 370-71 1195-96 49 Råkshasa . 53 Siddhā:thin 4298 1119 1254 603 371-72 *1196-97 50 Anala 54 Raudra 4299 1120 1255 604 372-73 1197-98 51 Pińgala 55 Durmati 4300 1121 1256 605 373-74 1198-99 52 Kålayukta . 56 Dundubhi	84
4296 1117 1252 601 369-70 1194-95 48 Ānanda 52 Kālayukta 4297 1118 1253 602 370-71 1195-96 49 Rākshasa . 53 Siddhā:thin 4298 1119 1254 603 371-72 *1196-97 50 Anala 54 Raudra 4299 1120 1255 604 372-73 1197-98 51 Pińgala 55 Durmati 4300 1121 1256 605 373-74 1198-99 52 Kālayukta . 56 Dundubhi	
4297 1118 1253 602 370-71 1195-96 49 Rākshasa . 53 Siddhā:thin 4298 1119 1254 603 371-72 *1196-97 50 Anala . . 54 Raudra 4299 1120 1255 604 372-73 1197-98 51 Piāgala . . 55 Durmati 4300 1121 1256 605 373-74 1198-99 52 Kālayukta . 56 Duminbhi	
4298 1119 1254 603 371-72 *1196-97 50 Anala 54 Raudra 4299 1120 1255 604 372-73 1197-98 51 Piágala 55 Darmati 4300 1121 1256 605 373-74 1198-99 52 Kâlayukta . 56 Dundubhi	The second second
4299 1120 1255 604 372-73 1197-98 51 Piágala 55 Durmati 4300 1121 1256 605 373-74 1198-99 52 Kālayukta . 56 Duminbhi	8 Kārttika‡ .
4300 1121 1256 605 373-74 1198-99 52 Kālayukta . 56 Duminbhi	
NAME AND ADDRESS OF TAXABLE PARTY OF TAX	
4301 1122 1257 606 374-75 1199-1200 53 Siddhärthin . 57 Rudhirödgårin	-
	. 4 Āshādha .
4302 1123 1258 807 375-78 *1200-01 54 Randen 58 Raktākaha	
4303 1124 1259 608 376-77 1201-02 55 Durmati . 59 Krődhana	
4304 1125 1260 609 377-78 1202-03 56 Dandabhi . 60 Kahaya .	1 Chaitra .
4305 1126 1261 610 378-79 1203-04 57 Rudhirodgárin 1 P.abhava	
4006 1127 1262 611 379-80 *1204-05 58 Raktāksha . 2 Vibhava	9 Märgasira .
4307 1128 1263 612 380-81 1205-06 59 Kródhana . 3 Sukla .	
4308 1129 1264 613 381-82 1206-07 80 Kshaya 4 Pramôda	
4309 1130 1265 614 382-83 1207-08 1 Prabhava . 5 Prajāpati	6 Bhādrapada .
4310 1131 1266 615 383-84 *1208-09 2 Vibhava . 6 Angiras .	in the
4311 1132 1267 616 384-85 1209-10 3 Sukla 7 Srimukha	
4312 1133 1268 617 385-86 1210-11 4 Pramôda . 8 Bhâva .	. 2 Vnisäkha .
4313 1134 1269 618 386-87 1211-12 5 Prajāpati . 9 Yavan .	***
4314 1135 1270 619 387-88 *1212-13 6 Argins 10 Dhātri .	. 11 Māgha .
4315 1136 1271 620 388-89 1213-14 7 Śrimukha . 11 Iśvara .	440
4316 1137 1272 621 389-90 1214-15 8 Bhāva 12 Bahudhānya	
1317 1138 1273 622 390-91 1215-16 9 Yuvan 13 Pramādin	7 Āśvina .
4218 1139 1274 623 391-92 *1216-17 10 Dhātri 14 Vikrams	E E E
4319 1146 1275 624 392-93 1217-18 11 16vara 15 Vrisha .	
4320 1141 1276 625 393-94 1218-19 12 Bahndhanya . 16 Chitrabhan	4 Āshadha .

#See " Remarks," p. 523 above.

XC-contd.

25 Mar. (85)	Mi	MAN	SOLAR YEA	ıı.				MEAN LUNI-SOL					Kali.
H. M. S. 25 Mar. (85) . 6 Fri 23 44 15 24 Mar. (83) . 5 Thur. 101 0706 429 26 Mar. (86) . 1 Sun 5 56 24 14 Mar. (73) . 3 Tues. 316 3255 429 25 Mar. (86) . 2 Mon 12 8 33 2 Mar. (82) . 0 Sat. 192 0482 429 25 Mar. (84) . 3 Tues 18 20 42 21 Mar. (80) . 6 Fri 226 7307 429 26 Mar. (85) . 5 Thur 0 32 51 10 Mar. (69) . 3 Tues. 102 4335 430 26 Mar. (85) . 6 Fri 6 45 0 28 Feb. (59) . 1 Sun 318 3083 430 25 Mar. (86) . 0 Sat 12 57 9 17 Mar. (77) . 6 Fri 12 8587 430 25 Mar. (84) . 1 Sun 19 9 18 7 Mar. (86) . 4 Wed 227 2136 430 26 Mar. (85) . 3 Tues 1 21 27 24 Feb. (55) . 1 Sun 102 9363 430 26 Mar. (85) . 4 Wed 7 33 36 15 Mar. (74) . 0 Sat 137 6188 430 25 Mar. (85) . 5 Thur 13 45 45 3 Mar. (83) . 4 Wed 13 416 430 25 Mar. (84) . 6 Fri 19 57 54 22 Mar. (81) . 3 Tues 48 0239 430 26 Mar. (85) . 2 Mon 2 10 3 12 Mar. (71) . 1 Sun 262 3788 430 26 Mar. (85) . 3 Tues 1 4 34 21 19 Mar. (70) . 4 Wed 172 7840 4316 26 Mar. (85) . 3 Tues 14 34 21 19 Mar. (70) . 4 Wed 172 7840 4316 26 Mar. (85) . 5 Thur 2 58 39 25 Feb. (57) . 6 Fri 262 8617 4311 26 Mar. (85) . 6 Fri 2 58 39 25 Feb. (57) . 6 Fri 262 8617 4311 26 Mar. (85) . 5 Thur 15 22 57 5 Mar. (65) . 2 Mon 173 2669 4311 26 Mar. (85) . 5 Thur 15 22 57 5 Mar. (65) . 2 Mon 173 2669 4314 26 Mar. (85) . 5 Thur 15 6 24 Mar. (83) . 1 Sen 207 4493 4316 26 Mar. (85) . 5 Thur 15 6 24 Mar. (83) . 1 Sen 207 4493 4316 26 Mar. (85) . 5 Thur 9 59 24 3 Mar. (62) . 3 Tues 298 0269 4311 26 Mar. (85) . 5 Thur 9 59 24 3 Mar. (62) . 3 Tues 298 0269 4311 27 Mar. (85) . 5 Thur 9 59 24 3 Mar. (62) . 3 Tues 298 0269 4311 28 Mar. (85) . 5 Thur 9 59 24 3 Mar. (62) . 3 Tues 298 0269 4311 28 Mar. (85) . 6 Fri 16 11 33 21 Mar. (81) . 2 Mon 332 7094 4318			Week-day.			n Mê	sha-					the index	
25 Mar. (85)	18		14			17		19		20		23	1
25 Mar. (85) . 1 Sun. 5 56 24 14 Mar. (73) . 3 Tnes. 316:3255 429 25 Mar. (85) . 2 Mon. 12 8 33 2 Mar. (62) . 0 Sat. 192:0482 429 25 Mar. (84) . 3 Tnes. 18 20 42 21 Mar. (80) . 6 Fri. 226:7307 429 26 Mar. (85) . 5 Thur . 0 32 51 10 Mar. (69) . 3 Tnes. 102:4535 430 26 Mar. (85) . 6 Fri. 6 45 0 23 Feb. (59) . 1 Sun. 316:3683 430 25 Mar. (85) . 0 Sat. 12 57 9 17 Mar. (77) . 6 Fri. 12:8587 430 25 Mar. (85) . 0 Sat. 19 9 18 7 Mar. (66) . 4 Wed. 227:2136 430 26 Mar. (85) . 3 Tnes. 1 21 27 24 Feb. (55) . 1 Sun. 102:9363 430 26 Mar. (85) . 4 Wed. 7 33 36 15 Mar. (74) . 0 Sat. 137:6188 430 25 Mar. (85) . 5 Thur. 13 45 45 3 Mar. (83) . 4 Wed. 13:3416 430 25 Mar. (85) . 5 Thur. 13 45 45 3 Mar. (83) . 4 Wed. 13:3416 430 26 Mar. (85) . 1 Sun. 2 10 3 12 Mar. (71) . 1 Sun. 262:3788 430 26 Mar. (85) . 2 Mon. 8 22 12 1 Mar. (71) . 1 Sun. 262:3788 430 26 Mar. (85) . 2 Mon. 8 22 12 1 Mar. (70) . 4 Wed. 172:7840 4316 26 Mar. (85) . 3 Tnes. 14 34 21 19 Mar. (79) . 4 Wed. 172:7840 4316 26 Mar. (85) . 6 Fri. 2 58 39 25 Feb. (57) . 6 Fri. 202:8617 4315 26 Mar. (85) . 0 Sat. 9 10 48 17 Mar. (76) . 5 Thur. 297:5441 4315 26 Mar. (85) . 0 Sat. 9 10 48 17 Mar. (76) . 5 Thur. 297:5441 4315 26 Mar. (85) . 1 Sun. 15 22 57 5 Mar. (65) . 2 Mon. 173:2669 4314 26 Mar. (85) . 4 Wed. 3 47 15 13 Mar. (72) . 5 Thur. 297:5441 4315 26 Mar. (85) . 4 Wed. 3 47 15 13 Mar. (72) . 5 Thur. 83:6722 4316 26 Mar. (85) . 5 Thur. 9 59 24 3 Mar. (62) . 3 Tnes. 298:0269 4314 26 Mar. (85) . 5 Thur. 9 59 24 3 Mar. (62) . 3 Tnes. 298:0269 4314 26 Mar. (85) . 5 Thur. 9 59 24 3 Mar. (62) . 3 Tnes. 298:0269 4314 27 Mar. (85) . 5 Thur. 9 59 24 3 Mar. (62) . 3 Tnes. 298:0269 4314 28 Mar. (85) . 5 Thur. 9 59 24 3 Mar. (62) . 3 Tnes. 298:0269 4314 28 Mar. (85) . 5 Thur. 9 59 24 3 Mar. (62) . 3 Tnes. 298:0269 4314 28 Mar. (85) . 5 Thur. 9 59 24 3 Mar. (62) . 3 Tnes. 298:0269 4314	**************************************		and the second		1000	13936		04 May 100		5 77.00		101-0708	4906
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Mean Interculated (adhika) luna		MVATSABA.	SAS	JOYIAN			year in	rama.		
month		Northern system.	1000	Southern system.	A.D.	Kollam.	Mëshadi solar Bengal.	Chaitesai Vikrama.	Saka.	Kali.
84		7		6	5	4	3a	3	2	1
		17 Subhānu	1	13 Pramádin	1219-20	394-95	626	1277	1142	4321
12 Phälguna		18 Tāraņa .		14 Vikrama	*1220-21	395-96	627	1278	1143	4322
8.	3	19 Pārthiva		15 Vrishn .	1221-22	396-97	628	1279	1144	4323
211	2000	20 Vyaya .		16 Chitrabhānu	1222-23	397-98	629	1280	1145	4324
9 Märgnsira		21 Sarvajit .		17 Subhānu	1223-24	398-99	630	1281	1146	4325
***		22 Sarvadhārin	-	18 Tăraņa .	*1224-25	399-400	631	1282	1147	4326
		23 Virodhin		10 Parthiva	1225-26	400-01	682	1283	1148	4327
5 Śrāvaņa		24 Vikrita .		20 Vyaya .	1226-27	401-02	633	1284	1149	4328
711		25 Khara .		21 Sarvajit .	1227-28	402-03	634	1285	1150	4329
VII.	. 3	26 Nandana	1	22 Sarvadhāriu	*1228-29	403-04	635	1286	1151	4330
2 Vnišakha		27 Vijaya .		23 Virödhin	1229-30	404-05	636	1287	1152	4331
***		28 Jaya .		24 Vikrita .	1230-31	405-06	637	1288	1153	4335
10 Fansha		29 Manmatha	٠	25 Khara .	1231-32	406-07	638	1289	1154	4333
1755		30 Durmukha		26 Nandana.	*1232-33	407-08	639	1290	1155	4334
		31 Hēmalamba		27 Vijaya .	1233-34	408-09	640	1291	1156	4335
7 Āśvina		32 Vilamba		28 Jaya .	1234-35	409-10	641	1292	1157	4336
1946		33 Vikarin .	3	29 Manmatha	1235-36	410-11	642	1293	1158	4337
/946		34 Śārvarin .		30 Durmukha	*1236-37	411-12	643	1294	1159	4338
4 Āshāḍha		35 Plava .		31 Hēmalamba	1237-38	412-13	644	1295	1160	4339
200		36 Śubhakrit		32 Vilamba .	1238-39	413-14	645	1296	1161	4340
12 Phâlguna		37 Söbhana .		33 Vikārin .	1239-40	414-15	646	1297	1162	4341
- 444	3	38 Krödhin		34 Sarvarin .	*1240-41	415-16	647	1298	1163	4342
311		39 Viśvāvasu		35 Plava .	1241-42	416-17	648	1200	1164	1343
9 Märgašira		40 Parabhava		36 Subhakrit	1242-43	417-18	649	1300	1165	4344
***		41 Plavanga		37 Söbhana .	1243-44	418-19	050	1301	1166	1.145

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13		14			17		19		20		23	1	
26 Mar. (85)	+1	3 Tues.		H. 10	M. 48	8.	18 Mar. (77)		2 Mon.		118-8374	4321	
25 Mar. (85) .	7	4 Wed.		17	0	9	7 Mar. (67)		0 Sat.		333-1923	4322	
25 Mar. (84)	6	5 Thur.	20	23	12	18	25 Mar. (84) .		5 Thur.		29-2427	4323	
26 Mar. (85)	1	0 Sat.		5	24	27	15 Mar. (74) .		3 Tues.		243-5975	4324	
26 Mar. (85) .	54	1 Sun.		11	36	36	4 Mar. (63) .		0 Sat.		119-3203	4325	
15 Mar. (85) .		2 Mon.		17	48	45	22 Mar. (82) .		6 Fri.		154.0027	4326	
6 Mar. (85) .		4 Wed.		0	0	54	11 Mar. (70)		3 Tues.		29-7256	432	
26 Mar. (85) .		5 Thur.		в	13	3	1 Mar. (60)		I Sun.		244'0804	432	
26 Mar. (85)		6 Fri.		12	25	12	20 Mar. (79) .	1	0 Sat.		278-7628	4325	
5 Mar. (85)	140	0 Sat.	3	18	37	21	8 Mar. (68) .		4 Wed.		154 4857	4330	
26 Mar. (85) .	2	2 Mon.		0	49	30	25 Feb. (56) .		I Sun.		30-2084	433	
6 Mar. (85) .		3 Tues.		7	1	39	16 Mar. (75) .	k	0 Sat.	•	64.8908	433	
26 Mar. (85) .		4 Wed.	,	13	13	48	6 Mar. (65)		5 Thur.		279-2457	433	
25 Mar. (85) .	-	5 Thur.		19	25	57	24 Mar. (84) .	ŀ	4 Wed.		313-9281	433	
26 Mar. (85) .		0 Sat.	0,0	1	38	6	13 Mar. (72) .		1 Sun.	•	189-6509	433	
26 Mar. (85) .	1	1 Sun		7	50	15	2 Mar. (61) .		5 Thur.		65-3738	433	
6 Mar. (85) .	E.,	2 Mon.		14	2	24	21 Mar. (80)		4 Wed.		100-0562	488	
5 Mar. (85) .	**	3 Tues.		20	14	33	10 Mar. (70)		2 Mon.	1/4	314:4110	433	
26 Mar. (85) .		5 Thur.		2	26	42	27 Feb. (58)		6 Fri.		190-1338	433	
26 Mar. (85) .		6 Fri.		8	38	51	18 Mar. (77)		5 Thur.		224-8162	434	
6 Mar. (85) .		0 Sat.		14	51	0	7 Mar. (66)		2 Mon.		100-5391	434	
25 Mar. (85) .	-	1 Sun.		21	3	9	25 Mar. (85)		1 Sun.		135-2214	434	
26 Mar. (85) .	K.,	3 Tues.		3	15	18	14 Mar. (73)		5 Thur.		10-9443	434	
26 Mar. (85) .		4 Wed.		9	27	27	4 Mar. (63)		3 Taos.	-	225-2991	434	

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intercalated (adkika) lur month. 8a 5 Srāvaņa 2 Vaisākla 10 Pausha 7 Āsvina	Northern system.	Southern system.	A.D.	Kollam.	Mëshadi solar Bengal,	Chaltradi Vikrama.	Saka.	Kali.							
80	7	6	5	4	3a	3	2	1							
	42 Kilaka†	38 Krödhin	*1244-45	419-20	651	1302	1167	4346							
	44 Sādhārana .	39 Viśvāvasa	1245-46	420-21	652	1303	1168	4847							
200	45 Virödhakrit .	40 Parabhaya	1246-47	421-22	653	1304	1169	4348							
200	46 Paridhāvin .	41 Playanga .	1247-48	422-23	654	1305	1170	4349							
	47 Pramādin .	42 Kilaka	*1248-49	423-24	655	1306	1171	4350							
	48 Auauda .	43 Saumya	1249-50	424-25	656	1307	1172	4351							
	49 Rākshasa .	44 Sādhāraņa .	1250-51	425-26	657	1308	1173	4352							
***	50 Anala	45 Virödhakrit .	1251-52	496-27	658	1309	1174	4353							
	51 Pińgala .	46 Paridhāvin	*1252-53	427-28	659	1310	1175	4354							
	52 Kālayukta	47 Pramādin	1253-54	428-29	660	1311	1176	4355							
	53 Siddhärthin .	48 Ānanda	1254-55	429-30	661	1312	1177	4356							
***	54 Randra	49 Rākshasa .	1255-56	430-31	662	1313	1178	4357							
3 Jyështha	55 Durmati .	50 Amila	*1256-57	431-32	663	1314	1179	4358							
	56 Dundubhi .	51 Pingala	1257-58	432-33	664	1315	2180	4359							
12 Phälguna	57 Rudbirödgårin	52 Kālayukta .	1258-59	433-34	665	1316	1181	4300							
***	58 Raktāksha .	53 Siddhärthin .	1259-60	434-35	666	1317	1182	4361							
	59 Krődhana .	54 Randra	*1260-61	435-36	667	1318	1183	4362							
8 Kârttika	60 Kshaya	55 Durmati .	1261-62	436-37	668	1319	1184	4363							
	1 Prabhava .	56 Dundubhi .	1262-63	437-38	669	1320	1185	4364							
144	2 Vibhaya .	57 Rudhirödgärin	1263-64	428-39	670	1321	1186	1365							
5 Sravana	3 Śukla	58 Raktāksha .	*1264-65	489-40	671	1322	1187	4366							
	4 Pramoda	59 Krödhane .	1265-66	440-41	672	1323	1188	4367							
10.00	5 Prajāpati .	60 Kahaya .	1266-67	441-42	673	1324	1189	4368							
1 Chaitra	6 Angiras	1 Prabhava .	1267-68	442-43	674	1325	1190	4269							
***	7 Śrimukha .	2 Vibbava .	*1268-69	443-44	675	1326	1191	4370							

^{† 43} Saumva was suppressed in the north by the mean system. By the "true" system K.Y. 4346 (expired), A.D. 1245-46, was called "Saumys," 44 Sadhāraça being suppressed. The next year was 45 Violdhakrit by both system of reckoning.

XC-contd.

				NT OF THE	MMENCEME	CO		
Kali.				MEAN LUNI-SOLAR YOUR CIVIL DAY ON WHICH		SOLAH YEAH,	LAN 8	Мя
1 4344 4344 4344 4354 4354 4354 4354 435	a (here=t, the index of the tithi).	y.c	Week-da	Day and month,	Time of mean Mesha- sankranti.	Week-day.		Day and month,
1	23		20	19	17	14		13
2			0.00 M	= 05 35	H. M. S.	L st		Western Wester
434	135-7043		6 Fri.	11 Mar. (71) .	21 51 45	6 Fri.		25 Mar. (85) .
434	11:4272	Н	3 Tues.	28 Feb. (59) .	4 3 54	1 Sun	12	26 Mar. (85) .
434	46-1096		2 Mon.	19 Mar. (78) .	10 16 3	2 Mon	13	26 Mar. (85) .
434	260-4644		0 Sat.	9 Mar. (68) .	16 28 12	3 Tues	12	26 Mar. (85) ,
435	136-1872		4 Wed.	26 Feb. (57) .	22 40 21	4 Wed	- 3	25 Mar. (85) .
435	170-8696	1	3 Tues.	16 Mar. (75) .	4 52 30	6 Fri	-9	26 Mar. (85) .
435	46-5925	4	0 Sat.	5 Mar. (64) .	11 4 39	0 Sat		26 Mar. (85) .
485	81-2748	9	6 Fri.	24 Mar. (83) .	17 16 48	1 Sun	- 4	26 Mar. (85) .
435	295-6297	3	4 Wed.	13 Mar. (73) .	23 28 57	2 Mon	35	25 Mar. (85) .
435	171:3526	12	1 Sun.	2 Mar. (61) .	5 41 6	4 Wed		26 Mar. (85) .
435	206-0349		0 Sat.	21 Mar. (80) .	11 53 15	5 Thur	-3	26 Mar. (85) .
435	81-7577	14	4 Wed.	10 Mar. (69) ,	18 5 24	6 Fri		26 Mar. (85) .
435	296-1126		2 Mon.	28 Feb. (59) .	0 17 33	1 Sun	- 6	26 Mar. (86) .
435	330-7950	74	1 Sun.	18 Mar. (77) .	6 29 42	2 Mon		26 Mar. (85) .
436	206-5178		5 Thur.	7 Mar. (66) .	12 41 51	3 Tues		26 Mar. (85) .
436	241-2002	-	4 Wed.	26 Mar. (85) .	18 54 0	4 Wed		26 Mar. (85) .
436	116-9231		1 Sun.	14 Mar. (74)	1 6 9	6 Fri		26 Mar. (86) .
436	331-2778	-	6 Fri.	4 Mar. (63)	7 18 18	0 Sat		26 Mar. (85) .
436	27-3283	12	4 Wed.	22 Mar. (81) .	13 30 27	1 Sun		26 Mar. (85) .
486	241-6831		2 Mon.	12 Mar. (71) .	19 42 36	2 Mon		26 Mar. (85) .
430	117-4060	1.5	6 Fri.	29 Feb. (60) .	1 54 45	4 Wed		26 Mar. (86) .
436	152-0883	7.0	5 Thur.	19 Mar. (78) .	8 6 54	5 Thur		26 Mar. (85) .
436	27:8112	2	2 Mon.	S Mar. (67)	14 19 3	6 Fri		36 Mar. (85) .
436	242-1660		0 Sat.	COMMUNICATION VAL	20 31 12	0 Sat.		26 Mar. (85) .
437	276-8483	132	6 Fri.	16 Mar. (76) .	2 43 21	2 Mon.		26 Mar. (86) .

levé.				CONCL	JERENT Y	EAR.		
Kali.	Śaka.	Chaitradi Vikrama.	Mëshidi solar year in Bengal.	Kollam.	A.D.	JOVIAN SA Southern system.	MVATSARA. Northern system.	Mean intercalated (adhika) lunar month.
1	n	3	3a	4	5	6	7	8a
14							THE STATE OF THE S	
4371	1155	1327	676	444-45	1269-70	3 Śakla	8 Bhava	10 Pansha .
4372	1193	1328	677	445-46	1270-71	4 Pramôda .	9 Yuvan	
4373	1194	1329	678	446-47	1271-72	5 Prajāpati .	10 Dhātri	
4374	1195	1330	679	447-48	*1272-73	6 Angiras	11 Isvara	7 Aśvina .
4375	1196	1331	680	448-49	1273-74	7 Śrimukha .	12 Bahudhânya .	***
4376	1197	1332	681	449-50	1274-75	8 Bhava	13 Pramāthin .	
4377	1198	1333	682	450-51	1275-76	9 Yuvan	14 Vikrama .	3 Jyeshtha .
4378	1199	1334	683	451-52	*1276-77	10 Dhātri	15 Vrisha	
4379	1200	1335	684	452-53	1277-78	11 Iśvara	16 Chitrabhânu .	12 Phälguna .
4380	1201	1336	685	453-54	1278-79	12 Bahudhānya .	17 Subhānu .	
4381	1202	1337	686	454-55	1279-80	13 Pramātain .	18 Tárana	***
4382	1203	1338	687	455-56	*1280-81	14 Vikrama .	19 Părthiva	8 Kārttika .
4383	1204	1339	688	456-57	1281-82	15 Vrisha	20 Vyaya	200
4384	1205	1340	689	457-58	1282-83	16 Chitrabhann .	21 Sarvajit	
4385	1206	1341	690	458-59	1283-84	17 Subhānu .	22 Sarvadhárin .	5 Śrāvana .
4386	1207	1342	691	459-60	*1284-85	18 Tarana	23 Virôdhin .	444
4387	1208	1343	692	460-61	1285-86	19 Parthiva .	24 Vikrita .	***
4388	1200	1344	693	461-62	1286-87	20 Vyaya .	25 Khara	1 Chaitra .
4389	1210	1345	694	462-63	1287-88	21 Sarvajit	1 mar 22 - 22/1	E SUITE S
4390	1211	1345	695	463-64	*1288-80	22 Sarvadhārin ,	American Company	10 Pausha
4391	1212	1347	696	464-65	1289-90	23 Virôdhin .	28 Jaya	
4392	1213	1348	697	465-66	1290-91	24 Vikrita	29 Manmatha	
4393	1214	1349	698	466-67	1291-92	25 Khara	30 Durankha	6 Bhiidrapada .
4394	1215	1350	699	407-68	*1292-93	26 Nandana .	31 Hēmalamba	
4392	1216	1851	700	468-69	1293-94	27 Vijaya	32 Vilamba	***

	I		C	омм	EN	CEM	ENT OF THE	-		¥	A L	
М	FAN	SOLAR YEAR	u.				MEAN LUNI-SOL		Kali.			
Day and month	h.	Week-day	Week-day.		ime n M	ēsha-	Day and mont	h,	Week-dr	ıy.	a (here = t, the index of the tithi).	
13		14			17		19		20		23	1
				Н.	М.	S.				Ī		
26 Mar. (85) .	*	3 Tues.	•	8	55	30	5 Mar. (64)		3 Tues.		152-5712	4371
26 Mar. (85) .	1 12	4 Wed.		15	7	39	24 Mar. (83)		2 Mon.		187-2536	4372
26 Mar. (85) .		5 Thur.	•	21	19	48	13 Mar. (72)		6 Fri.	9	62-9765	4373
26 Mar. (86) .		0 Sat.	•	3	31	57	2 Mar. (62)		4 Wed.	×	277-8313	4374
26 Mar. (85) .	19	1 Sun.	٠	9	44	6	21 Mar. (80)	1.5	3 Tues.		312-0137	4375
26 Mar. (85) .		2 Mon.	•	15	56	15	10 Mar. (69)	115	0 Sat.		187-7365	4376
26 Mar. (85) .		3 Tnes,	•	22	8	24	27 Feb. (58)		4 Wed.	•	63:4593	4377
26 Mar. (86) .		5 Thur.	•	4	20	33	17 Mar. (77)		3 Tues.		98-1417	4378
26 Mar. (85) .	12	6 Fri.	-	10	32	42	7 Mar. (66)		1 Sun.		312-4966	4379
26 Mar. (85) .	-	0 Sat.	•	16	44	51	25 Mar. (84)		6 Fri.	*	8:5470	4380
26 Mar. (85) .	- 14	1 Sun.	•	99	57	0	15 Mar. (74)	167	4 Wed.	1	222-9018	4381
26 Mar. (86) .		3 Tues.	•	5	9	9	3 Mnr. (63)	18	1 Sun.	1	98:6246	4382
26 Mar. (85) .	38,	4 Wed.	•	11	21	18	22 Mar. (81)	- 4	0 Sat.		133:3071	4383
26 Mar. (85) .		5 Thur.		17	33	27	11 Mar. (70)	-	4 Wed.	•	9-0299	4384
26 Mar. (85) .	(2)	6 Fri.	٠	23.	45	36	1 Mar. (60)	24	2 Mon.	*	223-3847	4385
26 Mar. (86) .	-	1 Sun.	2	5	57	45	19 Mar. (79)	17	1 Sun.		258-0671	4386
26 Mar. (85) .	*	2 Mon.		12	9	54	8 Mar. (67)	100	5 Thur.		133-7900	4387
26 Mar. (85) .	*	3 Tues.		18	22	3	25 Feb. (56)	-	2 Mon.		9-5127	4388
27 Mar. (86) .		5 Thur.		0	34	12	16 Mar. (75)	14	1 Eun.		44-1952	4389
26 Mar. (86) .		6 Fri		6	46	21	5 Mar. (65)		6 Fri.	*	258-5500	4390
26 Mar. (85) .		0 Sat.	-	12	58	30	24 Mar. (83)		5 Thur.	*	293-2324	4391
26 Mar. (85) .	*	1 Sun.	-	19	10	39	13 Mar. (72)	2	2 Mon.	ì	168-9552	4392
27 Mar. (86) .	*)	3 Tues.		1	22	48	2 Mar. (61)		6 Fri.	•	44:6781	4393
26 Mar. (86) .		4 Wod.		7	34	57	20 Mar. (80)		5 Thur.		79-3605	4394
26 Mar. (85) .		5 Phor	-	13	47	6	10 Mar. (69)		3 Tues.	-	293-7152	4395

TABLE

	Ť		1777	RENT YEA	CONCUE		-		
	_			ALSI THA	CONCUR				
Mean interculated (adhika) lunar		WATSARA.	JOVIAN SAI			solar year in	krama.		
month,		Northern system.	uthern ystem.	A.D.	Kollam.	Mëshadi sola Bengal.	Chaltradi Vikrama.	Saka-	Kali.
Sa		7	6	5	4	3a	3	2	1
					S.D.				10000
3 Jyështha .		33 Vikārin	· ·	The second secon	489-70	701	1352	1217	4396
766		34 Sărvarin	nmatha .		470-71	702	1353	1218	4397
11 Māgha .		35 Plava .	rmukha .	*1296-97	471-72	703	1354	1219	4398
OHES	54	36 Subhakrit	malamba .	ACTUAL CONTRACTOR	472-73	704	1355	1220	4399
***	3	37 Söbhana	amba .	1298-99	478-74	705	1356	1221	4400
8 Kärttika .		38 Krödhin	tārin	1299-1300	474-75	706	1357	1222	4401
***		39 Višvāvasu	rvarin .	*1300-01	475-78	707	1358	1223	4402
***	22	40 Parabhava	ava	1301-02	476-77	708	1359	1224	4403
4 Āshāḍha .	10	41 Plavanga	bhakrit .	1302-03	477-78	709	1360	1225	4404
***	>=	42 Kilaka .	bliana .	1303-04	478-79	710	1361	1226	4405
***		43 Saumya .	rödhin .	*1304-05	479-80	711	1362	1227	4406
1 Chaitra .		44 Sådhärana	śvävasn .	1305-06	480-81	712	1303	1228	4407
		45 Virödhakrit	rābhava .	1306-07	481-82	713	1364	1223	4408
10 Pausha ‡ -		46 Paridhāvin	avanga .	1307-08	482-83	714	1365	1230	4409
***		47 Pramādin	ilaka	*1308-09	483-84	715	1366	1231	4410
***		48 Ānanda .	umya	1309-10	484-85	716	1367	1232	4411
6 Bhādrapada .	٠,	49 Bākshasa	idhāraņa .	1310-11	485-86	717	1868	1233	4412
		50 Anala .	irodhakrit .	1311-12	486-87	718	1369	1234	4413
	4	51 Pingala .	aridhāvin	*1312-13	487-88	719	1370	1235	4414
3 Jyeshtha		52 Kālaynkta	ramādin	1313-14	438-89	720	1371	1236	4415
		53 Siddhärthin	nanda .	1314-15	489-90	721	1373	1237	4416
11 Māgha		54 Randra .	läkahaa	1315-16			137	1238	4417
***		. 55 Durmati	nala .	*1316-17	491-92	4 72	137	1239	4418
	10	56 Dundubhi	iògala .	1317-18	492-93	5 72	1.07	124	4419
8 Kārttika	irin .	. 57 Rudhirödgi	Kālayukta	1318-19	493-94	6 72	137	124	4420

\$ See " Remarks," p. 523, preceding this Table.

	C	OMMENCEME	NT OF THE						
ME	N SOLAR YEAR.			II-SOLAR YEAR (MEAN SUNHISE OF THE YON WHICH CHAITEA SUKLA I ENDS)					
Day and month,	Week-day.	Time of mean Mësha- samkränti.	Day and month, A.D.	Week-day.	a (here = t, the index of the tithi).				
13	14	17	19	20	23	1			
26 Mar. (85) .	. 6 Fri	H. M. S. 19 59 15	27 Feb. (58)	0 Sat.	169-4381	4296			
26 Mar. (85) . 27 Mar. (86) .	C 10000 THE 100	2 11 24	18 Mar. (77)	6 Fri.	204-1205	4397			
26 Mar. (86) .	2 Mon.	8 23 33	6 Mar. (66)	3 Tues.	79-8433	439			
26 Mar. (85) .	3 Tues.	14 35 42	25 Mar. (84) .	2 Mon.	114-5257	439			
88 Mar. (85) .	. 4 Wed	20 47 51	15 Mar. (74) .	0 Sat.	328-8806	440			
27 Mar. (86) .	. 6 Fri	3 0 0	4 Mar. (63) .	4 Wed.	204-6034	440			
26 Mar. (86)	. 0 Sat	9 12 9	22 Mar. (82)	3 Tues.	239-2859	440			
26 Mar. (85) .	. 1 Sun.	15 24 18	11 Mar. (70) .	0 Sat.	115:0087	440			
16 Mar. (85) .	. 2 Mon	21 36 27	1 Mar. (60) .	5 Thur	329-3535	440			
27 Mar. (86)	. 4 Wed	3 48 36	19 Mar. (78) .	3 Tues	25-4139	440			
16 Mar. (86) .	. 5 Thur	10 0 45	8 Mar. (68) .	1 Sun	239-7688	440			
16 Mar. (85) .	. 6 Fri	16 12 54	25 Feb. (56) .	5 Thur	115-4915	440			
26 Mar. (85) .	. 0 Sat	22 25 3	16 Mar. (75) .	4 Wed.	150-1739	440			
27 Mar. (86) .	. 2 Mon	Carellan	5 Mar. (64) .	1 Sun	25-8968	440			
26 Mar. (86) .	. 3 Tues	10 49 21	23 Mar. (83) .	0 Sat	60-5791	441			
26 Mar. (85) .	. 4 Wed	17 1 30	13 Mar. (72) .	5 Thur	274-9340	441			
26 Mar. (85) .	. 5 Thur	23 13 39	2 Mar. (61) .	2 Mon	150-6569	443			
27 Mar. (86) .	. 0 Sat.	5 25 48	21 Mar. (80) .	1 Sun	185-3393	441			
26 Mar. (86) .	. 1 Sun.	11 37 57	9 Mar. (69) .	5 Thur	61-0621	441			
26 Mar. (85) .	. 2 Mon.	17 50 6	27 Feb. (58) .	3 Tues	275-4169	441			
27 Mar. (86) .	. 4 Wed.	0 2 15	18 Mar. (77) .	2 Mon	310-0993	441			
27 Mar. (86) .	. 5 Thur.	6 14 24	7 Mar. (66) .	6 Fri	185-8221	441			
26 Mar. (86)	. 6 Fri	12 26 33	25 Mar. (85) .	5 That .	220-5045	441			
26 Mar. (85) .	. 0 Sat	18 38 42	14 Mar. (78)	2 Mon .	96-2274	411			
27 Mar. (86) .	. 2 Mon.	0 50 51	4 Mar. (63) .	0 Sac	310-5822	412			

-				CONC	URBENT	YEAR.		
	6.1	ikrama.	solar year in	Kollam,	A.D.	Jovian Sa	MVATSABA.	Mean intercalated - (adhika) lunar month.
Kali.	Saka.	Chaitradi Vikrama.	Meshādi sol Bengal.	Konam.	a.u.	Southern system.	Northern system.	and an
1	2	3	34	4	5	6	7	Sa
4421	1342	1377	726	494-95	1319-20	53 Siddhārthin .	58 Haktākslin	
4422	1243	1378	727	495-96	*1320-21	54 Randra	59 Krődhana	
4423	1244	1379	728	496-97	1321-22	55 Durmati .	60 Kshaya .	. 4 Ashādha .
4424	1245	1380	729	497-98	1322-23	56 Dundubhi .	1 Prabhava	
4425	1246	1381	730	498-99	1323-24	57 Eudhirödgárin.	2 Vibhava	2
4426	1247	1382	731	499-500	*1324-25	58 Raktāksha .	3 Sukla .	. 1 Chaitra .
4427	1248	1383	732	500-01	1325-26	59 Krődhana .	4 Pramôda	
4428	1249	1384	733	501-02	1326-27	60 Kshaya	5 Prajāpati	. 9 Märgasira ,
4429	1250	1385	734	502-03	1327-28	1 Prubhava .	6 Angiras .	
4430	1251	1386	735	503-04	*1328-29	2 Vibhava .	7 Śrimukha	
4431	1252	1387	736	504-05	1329-30	3 Sukla	8 Bhavat .	. 6 Bhildrapada .
4432	1253	1388	787	505-06	1330-31	4 Pramoda .	10 Dhātri .	
4433	1254	1389	738	506-07	1331-32	5 Prajápati .	11 Iscara .	
4434	1255	1390	739	507-08	*1332-33	6 Angiras	12 Bahudhanya	. 2 Vaišākha .
4435	1256	1391	740	508-09	1833-34	7 Srimukha .	13 Pramāthin	
4436	1257	1392	741	509-10	1334-35	8 Bhava	14 Vikrama	. 11 Mägha .
4437	1258	1393	742	510-11	1335-36	9 Yuvan	15 Vrisha .	-
4488	1259	1394	743	511-12	*1336-37	10 Dhūtri	16 Chitrabhann	* 100
4439	Carrier III	1395	744	512-13	1337-38	11 Isvara	17 Subhānn	. 7 Āśvina .
4440	1388	1396	745	513-14	1338-39	12 Hahudhānya .		t inte
4441	10-11-00	1397	746	514-15	1339-40	13 Pramāthin .	19 Parthiva ,	
4442	1 1000	1398	747	515-16	*1340-41	14 Vikrama .	The same of the sa	. 4 Ashādha .
4443	NAME OF TAXABLE PARTY.	1399	748	516-17		15 Vrinha	21 Sarvajit .	a 4 1924
4111		1400	749	517-18	1342-43	16 Chitrabhanu .	22 Sarvadhārin	. 12 Phälguna .
4445	1286	IAGI	750	518-19	1343-44	17 Subhānu .	23 Virodhin	

^{† 9} Yuvan was suppressed inthe north by the mean system. By the "true" system K.Y. 4431 (expired).

A. D. 1330-31, was called "Yuvan," and 10 Dhatri was suppressed. The next year was 11 Isvara by both systems.

					T OF THE	CEM	IEN	OMN	- c			HT.
Kali.	NRISE OF THE KLA 1 ENDS).		the same of the sa						DLAB YEAR.	AN 8	ME	
	a (here = f, the index of the tithi).	у.	Week-da	Day and month,			ime e n Më	mea	Week-day.		onth,	Day and mor A.D.
1	23		20		19	-	17		14			13
1						S.	M.	н.	on Community			
4421	6-6326	*	5 Thur.		2 Mar. (81)	0	3	7	3 Tues.	7.5		27 Mar. (86)
4422	220-9874	(1)	3 Tues.		Mar. (71)	9	15	13	4 Wed.			26 Mar, (86)
4423	96-7103	-	0 Sat. 6 Fri.		5 Feb. (59)	18	39	19	5 Thur		4	26 Mar. (85)
4424	131·3926 7·1155		3 Tnes.		Mar. (78) 8 Mar. (67)	27	51	7	0 Sat		•	27 Mar. (86) . 27 Mar. (86) .
4426	221-4703		1 Sun.		Feb. (57)	45	3	14	2 Mon			26 Mar. (86)
4427	256-1527	20 50	0 Sat.		Mar. (75)	54	15	20	3 Tnes.			26 Mar. (85)
4428	131-8755		4 Wed.		Mar. (64)	3	28	2	5 Thur.		e W	
4420	166-5579		3 Tues.		Mar. (83)	12	40	8	6 Fri.			27 Mar. (86)
4430	42-2808		0 Sat.		Mar. (72)	21	52	14	0 Sat.			26 Mar. (86)
4431	256-6356		5 Thur.		Mar. (61)	30	4	21	1 Sun.			
4435	291:3180	,	4 Wed.		Mar. (80)	39	16	3	3 Tues		4.	27 Mar. (86)
4433	167-0409		1 Sun.	- 1	Mar. (69)	48	28	9	4 Wed.			27 Mar. (86)
4434	42-7637		5 Thur.		7 Feb. (58)	57	40	15	5 Thur		4	26 Mar. (86)
4435	77-4460		4 Wed.	-	7 Mar. (76)	6	53	21	6 Fri			26 Mar. (85)
4436	291-8009	3.0	2 Mon.		7 Mar. (66)	15	5	4	1 Sun	10		27 Mar. (86)
4437	326-4833	1.0	1 Sun.		5 Mar. (85)	24	17	10	2 Mon	130		27 Mar. (86)
4438	202-2062		5 Thur.		Mar. (74)	33	29	16	3 Tues.	130		26 Mar. (86)
4439	77-9289	4	2 Mon.		Mar. (62)	42	41	22	4 Wed.	0	6	26 Mar. (85)
4440	1126114	70	1 Sun.	*	Mar. (81)	51	53	4	6 Fri	1		27 Mar. (86) .
4441	326-9662		6 Fri.	- 50	Mar. (71)	0	6	11	0 Sat	1	*	27 Mar. (86) .
4441	202-6890		3 Tues.	**	Feb. (60)	9	18	17	1 Sun		10	6 Mar. (86) .
4441	237:3714		2 Mon.		Mar. (78)	18	30	23	2 Mon	12.5		26 Mar. (85)
4444	113-0943		6 Fri.	•	Mar. (67)	27	42	5	4 Wod.	30		27 Mar. (86)
4448	147-7767	-	5 Thur.		Mar. (85)	36	54	11	5 Thur	Val	0	27 Mar. (86)

		_	_					
				CONC	URRENT	YEAR.		
Kali,	Śaka.	Chaitradi Vikrama.	Möshådi solar year in Bengal.	Kollam.	A.D.	JOVIAN SA Southern system.	MVATSARA. Northern system.	Mean intercalated (adhika) lunar month.
1	2	3	30	4	5	6	7	8a
4446	1267 1268	1402	751 752	519-20 520-21	*1344-45 1345-46	18 Tāraņa	24 Vikrita 25 Khara	9 Märgnáira .
4448	1269	1404	753	521-22	1346-47	20 Vyaya	26 Nandana	334.
4449	1270	1405	754	522-23	1347-48	21 Sarvajit	27 Vijaya	94
4450	1271	1406	755	523-24	*1348-49	22 Sarvadhārin .	28 Jaya	6 Bhādrapada .
4451	1272	1407	756	524-25	1349-50	23 Virôdhin ,	29 Manmatha .	1 200
4452	1273	1408	757	525-28	1350-51	24 Vikrita	30 Durmukha .	***
4453	1274	1409	758	526-27	1351-52	25 Khara	31 Hēmalamba .	2 Valšākha
4454	1275	1410	759	527-28	*1352-53	26 Nandana	32 Vilamba	*
4455	1276	1411	760	528-29	1353-54	27 Vijoya	33 Vikārin	11 Mágha .
4456	1277	1412	761	529-30	1354-55	28 Jaya	34 Sarvarin	***
4458	1278	1413	762	530-31	1355-56 *1356-57	29 Manmatha	36 Subhakrit	777
4459	1270	1414	764	531-32	1357-58	31 Hēmalamba	37 Sobhana	7 Āśvina .
4460	1281	1416	765	533-34	1358-59	32 Vilamba	38 Kródhin	***
4461	1282	1417	766	534-35	1359-60	33 Vikārin	39 Višvāvasu	4 Åshādha .
4462	1283	1418	767	535-36	*1360-61	34 Śārvarin .	40 Paräbhava	
4463	1284	1419	768	536-37	1361-62	35 Plava	41 Playanga	12 Phälguns .
4464	1285	1490	769	537-38	1362-63	36 Subhakrit .	42 Kilaka	
4465	1286	1421	770	538-39	1363-64	37 Śöbhana	43 Sanmya	***
4466	1287	1422	771	539-40	*1364-65	38 Krödhin	44 Sādhāraņa	9 Mārgošira
4467	1288	1423	772	540-41	1365-66	39 Višvāvasu .	40 000 000	314
4168	1289	1424	773	541-42	1366-67	40 Parabhava .	46 Paridhāvin	
4469	1290	1425	774	542-43	1367-68	41 Plavanga	47 Pramādin .	5 Srāvana .
4470	1291	1420	775	543-44	*1368-69	42 Kilaka	48 Ānanda	N ₁
-	-	-	•					

XC-contd.

			0	OME	EN	CEM	ENT OF THE										
M	HAN	SOLAR YEAR			1			MEAN LUNI-SOLAR YEAR (MEAN SUNDISE OF THE CIVIL DAY ON WHICH CHAITEA SUKLA I ENDS).									
Day and month	16	Week-day		mean	imo n Mé nkră	sha-	Day and mor	Week-da	ÿ.	a (here=t, the index of the tithi).							
13		14			17		19		20		23	1					
26 Mar. (86) .		6 Fri.	100	H. 18	M.	S. 45	15 Mar. (75)		2 Mon.	Ų	23-4995	4446					
7 Mar. (86) .		1 San.		0	18	54	5 Mar. (04)		0 Sat.		237-8543	4447					
27 Mar. (86) .		2 Mon		6	31	3	24 Mar. (83)		6 Fri.		272-5367	4448					
7 Mar. (86) .		3 Tues.		12	43	12	13 Mar. (72)		3 Tues.		148-2595	4440					
6 Mar. (86)		4 Wed.	STATE OF	18	55	21	1 Mar. (61)		0 Sat.		23-9824	4450					
7 Mar. (86) .	- 10	6 Fri.	1	1	7	30	20 Mar. (79)	10	6 Fri.		58-6648	445					
7 Mar. (86) .		0 Sat.		7	19	39	10 Mar. (69)		4 Wed.		273-0197	445					
7 Mar. (86) .		1 Sun.		13	31	48	27 Feb. (58)	-	1 Sun.		148-7424	445					
6 Mar. (86) .		2 Mon.		19	43	57	17 Mar. (77)		o Sat.	-	183'4248	445					
7 Mar. (86) .		4 Wed.		1	56	6	6 Mar. (65)		4 Wed.		59-1477	445					
7 Mar. (86)	-	5 Thur.		8	8	15	25 Mar. (84)		3 Tues.		93/8300	4456					
7 Mar. (86) .		6 Fri.	9	14	20	24	15 Mar. (74)		1 Sun.		308-1840	445					
6 Mar. (86) .		0 Sat.		20	32	33	3 Mar. (63)	٠,	5 Thur.		183-9077	445					
7 Mar. (86)		2 Mon.		2	44	42	22 Mar. (81)	,	4 Wed.		218-5902	445					
7 Mar. (86) .		3 Tues.		8	56	51	11 Mar. (70)	-	1 Sun.		94:3129	446					
7 Mar. (86) .	(0)	4 Wed.		15	9	0	1 Mar. (60)		6 Fri.	1	308-6678	446					
6 Mar. (86) .	2	5 Thur.		21	21	9	18 Mar. (78)	Т,	4 Wed.		4-7182	446					
7 Mar. (86) .		0 Sat.	-	3	33	18	8 Mar. (67)	1,3	2 Mon.		219-0730	446					
7 Mar. (86) .		1 Sun.		9	45	27	27 Mar. (86)		1 Sun.		253-7554	446					
7 Mar (86) .		2 Mon.		15	57	36	16 Mar. (75)		5 Thur.		129-4783	446					
6 Mar. (86) .		3 Tues.		22	9	45	4 Mar. (64)	-	2 Mon.		5:2011	446					
7 Mar. (86) .		5 Thur.			21	54	23 Mar. (82)	1	1 Sun.		39-8835	446					
7 Mar. (86) .		6 Fri.		10	04	3	13 Mar. (72)		6 Fri.		254-2383	446					
7 Mur. (86) .	57	0 Sat.	1.0	16	46	12	2 Mar. (61)		3 Tnes.	II.	129-9612	446					
6 Mar. (86) .	18.	I Son.		22	88	21	20 Mar. (80)		2 Mon.	١.	164-6435	447					

TABLE

_	-		-					1
				CONC	URRENT 1	YEAR.	X.	
Kali.	Śaka.	Baiteādi Vikrama.	Mëshadi solar year in Bengal.	Koltam.	A.D.	Jovian S. Southern system.	Northern system.	Mean intercalated (adhika) lunar month.
1	2	8	3:1	4	5	- 6	7	80
-	12.01	1 8	100	-				OB
4471	1292	1427	776	544-45	1369-70	43 Sanmya -	49 Rākshasa .	>
4472	1293	1428	777	545-46	1370-71	44 Sādhāraņa	50 Anala	2 Valšákha
4473	1294	1429	778	546-47	1371-72	45 Virðdhakrit .	51 Pingala	
4474	1295	1430	779	547-48	*1372-73	46 Paridhāvin .	52 Kálayukta .	10 Pausha
4475	1296	1431	780	548-49	1373-74	47 Pramādin .	53 Siddharthin .	144
4476	1297	1432	781	549-50	1374-75	48 Ānanda	54 Raudra	***
4477	1298	1433	782	550-51	1375-76	49 Rākshasa .	55 Durmati .	7 Āśvina .
4478	1299	1434	783	551-52	*1376-77	50 Anala	56 Dundubhi .	710
4479	1300	1435	784	552-53	1377-78	51 Pingala	57 Rudhirödgárin	***
4480	1301	1436	785	558-54	1378-79	52 Kālayukta .	58 Raktāksha .	3 Jyeshtha .
4481	1302	1437	786	554-55	1379-80	53 Siddhärthin .	59 Krödhana .	53/5
4482	1303	1438	787	555-56	*1380-81	54 Raudra	60 Kshaya	12 Phälguna .
4483	1304	1439	788	556-57	1381-82	55 Durmati .	1 Prabhava .	
4484	1305	1440	789	557-58	1382-83	56 Dundubhi .	2 Vibhava .	***
4485	1306	1441	790	558-59	1383-84	57 Rudhirödgárin .	3 Śakla , ,	9 Mārgašira .
4486	1307	1442	791	559-60	*1384-S5	58 Raktāksha .	4 Pramoda ,	***
4487	1308	1443	792	560-61	1385-86	59 Krődhana .	5 Prajāpati .	
4488	1809	1444	793	561-62	1386-87	60 Kshaya	6 Angiras	5 Śrāvaņa
4489	1310	1445	794	562-63	1387-88	I Prabhava ,	7 Śrimukha .	
4490	1311	1446	795	563-64	*1388-89	2 Vibhava .	8 Bhāva	2000
4491	1312	1447	796	564-65	1389-90	3 Sukla	9 Yavan	2 Valsākha .
4492	1313	1448	797	565-66	1390-91	4 Pramoda .	10 Dhatri	
4493	1314	1440	798	566-67	1891-92	5 · Prajšpati .	11 Iávara	10 Pansha
4494	1815	1450	790	567-68	*1392-93	6 Angirus	12 Bahudhānya .	
4495	1816	1451	800	568-69	1393-94	7 Srimnkha :	13 Pramätbin	
			100			-	- 6	

XC-contd.

					*******				-				
					ENT OF THE	CEM	HEN	OMA	C			ALL L	
Kali.	NHISE OF THE KLA 1 ENDS).				MEAN LUNI-SO CIVIL DAY ON			M.	ABi	SOLAR YEA	AN	Mi	
	a (here = t, the index of the tithi).	day.	Week-da	nth,	Day and mor	Time of mean Mësha- samkranti.			ay.	Week-de	,	y and month	Da
1	23		20	19		17				14		13	
447	10.0001				100000		100	Н.		200		and the second	100 100
	40-3664		6 Fri.		9 Mar. (68)	30	0.000	5	*	3 Tues.	(4)	ar. (86)	
447	254-7212	1 30	4 Wed.	12	27 Feb. (58)	39	22	11	5	4 Wed.	(9)	ar. (86)	
1	289-4036		3 Tues.		18 Mar. (77)	18	34	17		5 Thur.	*	ar, (86) .	7 M
447	165-1264		0 Sat.	1/4	6 Mar. (66)	- 57	46	23	2	6 Fri.	12	ar, (86) .	
447	199-8088		6 Fri.	0[0]	25 Mar. (84)	6	59	1 5	*	I Sun.	×	ar. (86)	
447	_75-5317	٠	3 Tues.	×	14 Mar. (73)	15	11	12	*	2 Mon.		ar. (86)	7 M
447	289-8864		1 Sun.		4 Mar. (63)	24	23	18	10	3 Tues.		ar. (86) .	7 M
447	324-5680		0 Sat.	17	22 Mar. (82)	33	35	0		5 Thur.	*	nr. (87) .	7 M
447	200-2917		4 Wed.	72	11 Mar. (70)	42	47	6	- 5	6 Fri.	*	ar. (86) .	7 M
448	76-0146		1 Sun.	-	28 Feb. (59)	51	59	12	- 1	0 Sat.		ar. (86) .	7 M
448	110-6969	*	0 Sat.		19 Mar. (78)	0	12	19	+	I Sun.	3	ar. (86) .	7 M
448	325-0518		5 Thur.	- 2	8 Mar. (68)	9	24	1	42	3 Tues.	100	ar. (87) .	7 M
448	21.1022		3 Tues.	17.5	26 Mar. (85)	18	36	7	*	4 Wed.	90	ат. (86)	7 36
448	235-4571		1 San.	- 2	16 Mar. (75)	27	48	13		5 Thur.		nr. (86) .	7 M
448	111-1798	- 43	5 Thur.	- 1	5 Mar. (64)	36	0	20	- 3	6 Fri.	- 5	ar. (86) .	7 M
448	145-8623		4 Wed.	*	23 Mar. (83)	45	12	2		1 Sun.		ar. (87) ,	7 M
448	21-5851		1 Sun.		12 Mar. (71)	54	24	8	140	2 Mon.		ar. (86) .	7 M
448	235-9399		6 Fri.		2 Mar. (61)	3	37	14		3 Tues,		ar. (86) .	7 Mi
448	270 6223		5 Thur.		21 Mar. (80)	12	49	20	130	4 Wed.		ar. (86) .	7 Mi
449	146:3452		2 Mon.	-	9 Mar. (69)	21	1	3		6 Fri.		ar. (87) .	7 Mo
449	22-0680		6 Fri.		26 Feb. (57)	30	13	9	3	0 Ent.		ar. (86) .	7 Ma
449	56-7503		5 Thur.		17 Mar. (76)	39	25	15	14	1 Sm.		ar. (86) .	7 Mo
449	271-1052		3 Tnes.		7 Mar. (66)	48	37	21	7	2 Mon.		ur. (86) .	
449	205-7876		2 Mon.		25 Mar. (85)	57	49	3		4 Wed.		ur. (87) .	
449	181-5104		6 Fri.		14 Mar. (73)	6	2	10		5 Thur.		ır. (86) .	

TABLE

				CONC	URRENT Y	EAR.			
		amıt.	year in		1,1	JOVIAN S	ańvatsana.	1	Mean intercalated (adhika) lunar
Kali,	Śaka.	Chaltradi Vikrama.	Mëshādi solar year Bengal,	Kollam.	A.D	Southern system.		month	
1	2	3	3a	4	5	6	7		84
4496	1317	1452	801	569-70	1394-95	8 Bhāva	14 Vikrama		7 Āśvina
4407	1318	1453	802	570-71	1395-96	9 Yuvan	15 Vrisha .		200
4498	1319	1454	803	571-72	*1396-97	10 Dhātri	16 Chitrabhanu	100	7
4499	1320	1455	804	572-73	1397-98	11 Isvam	17 Subhānu	74	3 Jyeshtha
4500	1321	1456	805	573-74	1398-99	12 Bahudhānya	18 Timņa .		344
4502	1322	1457	806	574-75	1399-1499	13 Pramathin	19 Pärthiva		12 Phälguna
4502	1323	1458	807	575-76	*1400-01	14 Vikrams	20 Vyaya .		1,000

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				T OF THE	MEN	NCE	IME	COM	0						
Kali.		Mean Luni-solar year (mean sunrise of t civil day on which Chaitra Sukla 1 ends													
	d (here=t, the index of the tithe).	Week-day.	th,	Day and mont	sha-	ime o n Mê nkrih	mean	y	Veek-da	1			nd m	day a	1
1	23	20		19		17			14	1			13		
449	57-2333	3 Tues		3 Mar. (62)	S. 15	M. 14	H. 16	-	Fri.	6			(86)	Mar.	27
449	91-9157	2 Mon	-	22 Mar. (81)	24	26	22	-	Sat.	0) 4	(86)	Mar.	27
449	306:2704	0 Sat		11 Mar. (71)	33	38	940		Mon.	2)	(87)	Mar.	27
449	181-9933	4 Wed.	•	28 Feb. (59)	42	50	10		Tues.	3			(86)	Mar.	27
450	216-6757	3 Tues		19 Mar. (78)	51	2	17		Wed.	4	*		(86)	Mar.	27
450	92-3986	0 Sat.		8 Mar. (67)	0	15	23		Thur.	5		j	(86)	Mar.	27
450	127:0810	6 Fri	4	26 Mar. (86)	9	27	5		Sat.	0	1) 5.	(87)	Mar.	27

TABLE XCI.

DUBATION AND COLLECTIVE DURATION OF MEAN SOLAR MONTHS ACCORDING TO THE BRAHMA-SIDDHANTA, WITH INCREASE OF " a" AT EACH SAMERANTI.

Mean luni-solar month, anding after he second of the two solar samkrautis connected	At the mean solar samkrantis.	Increas	to the	d collective m-samkränti is.				
with it.	TOTAL PROPERTY.	Day.	Week-	н.	м.	S.	a	X True and
1	2			3		F	4	
1 Chaitra	Mina-samk. (of pre-							
	(Mêsha-sarak.	0	0	0	0	0	0	
2 Vaisākha . {	(Vrishnbha-samk	30	(2)	10	31	01	307-3482	The duration of each
3 Jyeshiha . (Mithuna-samk	60	(4)	21	2	11	614-6983	mean solar month i 30 ⁴ 10 ⁵ 31= 04*
4 Ashādha	(Karka-samk	91	(0)	7	33	21	922-0475	and in this time the mean moon's in
5 Srāvaņs .	(Simha-samk	121	(2)	18	4	3	1229-3966	from mean sun (our
6 Bhadrapada . }	Kanyā-samk.	152	(5)	-4	35	31	1536-7458	a), in measurement by 10,000ths of circle
7 Aśvina	Tuli-samk	182	(0)	15	6	4)	1844-0940	is 307-349156595.
8 Kärttika . }	(Vrišchika-samk	213	(3)	1	37	51	2151-4441	
9 Märgasira	Dhanus-sarik	243	(5)	12	8	6	2458-7933	
10 Panshs	(Makara-samk	273	(0)	22	39	61	2766-1424	
11 Magha	Kumbha-samk	304	(3)	9	10	71	3073-4916	
12 Philgana .	(Mina-sarhk	334	(5)	19	41	81	3380-8407	
1 Chairn (of fol- lewing year).	Mesha-samk. (of following year).	365	(1)	6	12	9	3688-1899	The Lead

A samkranti occurs at the moment when the mean ann enters a zodiacal sign.

TABLE XCII.

CENTURY-TABLE.

Value of "a" (="t") at beginning of centuries K.Y., i.e. at mean sunrise on dat of occurrence of mean Mesha-sameranti (mean sun at 0°) in first year of century. [Centuries 38, 44, were defective; the rest common.]

Beginning of K.Y. century.	Beginning in A.D,	Week- day.	a (= t).
37	599	(0)	6228-4770
38	699	(0)	5100-3761
39	799	(6)	3633-6433
40	899	(6)	2505-5425
41	990	(6)	1377-4416
42	1009	(6)	249-3408
43	1199	(6)	9121-2399
44	1299	(6)	7993-1391
45	1399	(5)	6526-4063

For odd years of centuries use the Siddhanta-Siromani Table LVII-B above.

TABLE XCIII.

MEAN SUREISE VALUES OF "a" (DISTANCE OF MEAN MOON FROM MEAN SUN) IN 10,000 THE OF CIRCLE FOR A MONTH PREVIOUS TO THE DAY ON WHICH MEAN MESHA-SANKRANTI OCCURRED.

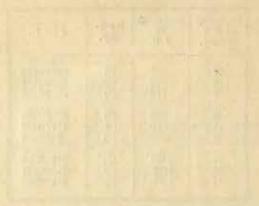
Interval of days from mean Měsha- samkränti day.	Week-day.	(mean sunrise value).	Interval of days from moan Měsha- samkränti day.	Week-day.	d (mean sunrise value).
1	2	3	1	2	3
31	(4)	9502-4085	15	(6)	4920-5202
30	(5)	9841-0404	14	(0)	5259-1522
29 28	(6)	179-6724	13	(1)	5597.7842
28	(0)	518:3044	12	(2)	5936-4162
27	(1)	856-9364	11	(3)	6275-0482
26	(2)	1193-5684	10	(4)	6613-6801
25	(3)	1534-2004	9	(5)	6952-3121
24	(4)	1872-8324	8	(6)	7290/9441
23	(5)	2211-4648	7 6 5	(0)	7629-5761
22 21	(6)	2550-0963	6	(1)	7968 2081
	(0)	2888-7283	5	(2)	8306-8401
20	(1)	3227-3603	. 4	(3)	8645-4721
19	(2)	3565-9923	3	(4)	8984-1040
18	(3)	3904 6243	2 1	(5)	9322-7360
17	(4)	4243-2563		(6)	9661 3680
16	(5)	4581-8882	0	(0)	0.0

The use of this Table is explained in Example 2 of this article, and in Example 1 of article on the First Arya-Siddhanta, mean system above.

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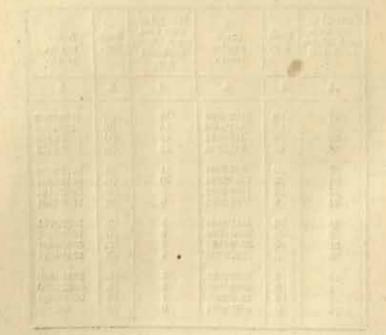
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TABLE XCIV.

Time-equivalents of the tithi ("a" or "t"), nakshatea ("a"), and yoga ("y") units.

In very close cases it is sometimes necessary to calculate the exact moment of the beginning and ending of tithis, wakshatras and yōgas, with greater accuracy than can be obtained by the use of Table X, Indian Calendar, or Table LXX (above, where the time-equivalent of the unit, respectively, is given only in hours and minutes). My general working Tables given in this volume for the Hindu astronomical Siddhāntas yield results, stated in measurement by 10,000ths of the circle, with an accuracy extending to four places of decimals, and the following Table enables the result to be translated into time down to a fraction of a second. It may be used for all astronomical authorities.

The tithi-index unit.

The tithi-unit is To both of a mean lunation. The mean lunation, according to the Aryand Sarya-Siddhantas, occupies 29^d 12^h 44^m 2*79. The unit, or 10,000th part of this, is 4^m·2524046, or 4^m 15*144279.

The nakshatra-index unit.

The moon's nakshatra, or her position in the heavens, mean or true, is found by adding the tithi-index, "a" or "t", to the index of the sun's longitude, "s", mean or true. Both these values are found in the ordinary course of calculation for a date.

The mean wakshatra-value n = 10,000 is reached in 27^4 7^h 43^m 12^n 3. In this period the sun's mean motion amounts, in 10,000ths of circle measurement, to 748.0087 (Table XLIV above and the moon's mean distance from mean sun increases (Table LIV A, B) to 9251.9913. Total 10,000.

27d 7h 43m 12n-3=39343m-205, and this divided by 10,001 fixes the time-equivalent of the nakshatra-unit as 3m-9343205, or 3m 56n-05923.

The yoga-index unit.

Similarly the yōga-chakra is estimated by the Sūrya-Siddhānta (Indian Calendar, p. 62, § 113) as occupying 36605·116 minutes of time, or 25d 10h 5m 6s-96.1 The yōga-unit therefore is 3m-6605116, or 3m 39s-6307.

¹ The poga formula is "y" = "z" (sun's long.) + "a" (moon's sakzhatra), and, since n = z + a, y = 2z + a. In the period acted it will be found by calculation, using Table XLIV above, that the mean sun "z" arrives, in 10,000ths of circle measurement, at long. 695-9511; and by using Table LXIV that in the same period the mean moon has increased her distance from mean sun "(a)" by \$608-0964. Twice "z" = 1391-9022, and this + \$608-0964 (the value of "a") = 9999-9988, practically 10,000 exactly. Table LXIV was prepared according to the First Ārya-Siddhāsta. Using Biddhāsta-Śirōmani and Brahma-Siddhāsta estimates (Table LIV) the total amounts to 10,000-7015, I have as yet no similar Table according to Sūrya-Siddhāsta requirements; but from what has been said it may be assumed that its estimate of the time occupied by one yōga-chakra (=10,000) is correct.

TABLE XCIV-A.

Time-equivalents.

Tithi-index units.

(" Arg."= a or t.)

Arg.	н.	M,	8.	Arg.	н. м.	S.	Arg.	H.	M.	S.	Arg.	H	M.	8.
1	0	4	15-14	30	2 7 8	34-33	59	4	10	53-51	88	6	14	12:70
2	0	8	30-29	31	2 11 4	19-47	60	4	15	8.7	89	. 6	18	27:84
3	0	12	45-43	32	2 16	4.62	61	4	19	23.80	90	6	22	42-99
4	0	17	0.58	33	2 20 1	19-76	62	4	23	38:95	91	6	26	58.13
5	0	21	15-72	34	2 24 3	34-91	63	4	27	54-09	92	6	31	13-27
6	0	25	30-87	35	2 28 1	50-05	64	4	32	9.23	93	6	35	28:42
7	0	29	46.01	36	2 33	5.19	65	4	36	24:38	94	- 6	39	43.56
8	0	34	1.15	37	2 37	20-34	66	4	40	39-52	95	-6	43	58-71
9	- 0	38	16:30	38	2 41	35.48	67	4	44	54-67	96	6	48	13.85
10	0	42	31.44	39	2 45	50-63	68	4	49	9-81	97	6	52	29-00
11	0	46	46.59	40	2 50	5-77	69	4	53	24-96	98	6	56	4414
12	0	51	1.73	41	2 54	20-92	70	4	57	40-10	99	7	0	59-28
13	0	55	16-88	42	2 58	36-06	71	5	1	55:24	100	7	5	14:43
14	0	59	32-02	43	3 2	51-20	72	5	6	10:39	200	14	10	28-86
15	1	3	47.16	44	8 7	6.35	73	5	10	25.53	300	21	15	43-25
16	1	8	2:31	45	3 11	21.49	74	5	14	40-68	400	28	20	57-7
17	1	12	17:45	46	3 15	36-64	75	5	18	55-82	500	35	26	12:1
18	1	16	32-60	47	3 19	51-78	76	. 5	23	10-97	600	42	31	26-5
. 19	1	20	47-74	48	3 24	6.93	77	5	27	26.11	700	45	36	41-0
20	1	27	2-29	49	3 28	22:07	78	Б	31	41.25	800	36	41	55.4
21	1	96	18.03	50	3 32	37:21	79	5	35	56-40	900	63	47	9.8
22		3	3 33-17	51	3 36	52-36	80	5	40	11:54	1000	70	52	24.2
23	1	37	7 48-32	52	3 41	7-50	81	5	44	26-69	1			
24	4 3	4	2 3.46	53	3 45	22-65	82	5	48	41-83				
25		4	6 18-61	54	3 49	37-79	53	5	52	56-98		*		
26	1	1 5	0 33-75	55	3 53	52-94	84	5	57	12-20				
27	1 3	1 5	48-90	56	3 58	8.08	85	6	1	27:26		1		
28		1 5	9 4.04	57	4 2	23-22	86	6	5	42.41				
25	0 3	2	3 19-18	58	4 6	38-37	87	6	9	57-55		11		

TABLE XCIV-B.

TIME-EQUIVALENTS.

DECIMALS OF TITHI-INDEX UNITS.

First 2 decimals.	M. S.	First 2 decimals.	M. S.	First 2 docimals,	M. 8.
-01	0 2-55	-34	1 26-75	-67	2 50-95
-02	0 5:10	.35	1 29:30	-68	2 53-50
-03	0 7.65	-36	1 31.85	-69	2 56.05
-04	0 10-21	-37	1 34.40	-70	2 58-60
*05	0 12-76	*38	1 36-95	.71	3 1.15
-06	0 15-31	-39	1 39-51	-72	3 3.70
-07	0 17:86	40	1 42.06	-73	3 6.26
*08	0 20-41	*41	1 44/61	-74	3 8.81
+09	0 22-96	-42	1 47.16	-75	3 11.36
-10	0 25.51	-43	1 49-71	•76	3 13-91
-11	0 28:07	*44	1 52.20	-77	3 16:46
-12	0 30-62	*45	1 54-81	-78	3 19-01
-13	0 33.17	-46	1 57:37	-79	3 21:56
14	0 35-72	147	1 59-92	*80	3 24:12
-15	0 38-27	48	2 2-47	-81	3 26-67
.16	0 40-82	49	2 5.02	182	3 29-22
17	0 43:37	•50	2 7.57	*83	3 31-78
18	0 45 93	-51	2 10-12	*84	3 34-32
•19	0 48 48	-52	2 12.68	*85	3 36-87
-20	0 51-03	•53	2 15.23	-86	3 39-42
•21	0 53-58	54	2 17:78	87	3 41 98
-22	0 56-13	*55	2 20:33	-88	3 44.53
-23	0 58-68	-56	2 22.88	:89	3 47.08
24	0 61.23	.57	2 25.43	-90	3 49-63
-25	1 3.79	*58	2 27-98	91	3 52-18
-26	1 6.34	-59	2 30-54	92	3 54-73
-27	1 8.89	-60	2 33.09	-93	3 57:28
-28	1 11:44	-61	2 35-64	94	3 59-84
-20	1 13-99	-62	2 38-19	95	4 2:39
-30	1 16-54	-63	2 40-74	-96	4 494
*31	1 19:09	-64	2 43-29	-97	4 7.49
-32	1 21-65	-65	2 45.84	98	4 10-04
-33	1 24.20	-66	2 48-40	-99	4 12-59
		-			

3rd and 4th decimals.	8.	3rd and 4th decimals.	S.	3rd and 4th decimals.	8.
-0001	0-03	*0034	0.87	-0067	1.71
-0002	0.05	-0035	0.89	-0068	1.73
*0003	0.08	*0036	0.92	-0069	1.76
*0004	0.10	-0037	0.94	-0070	1.79
-0005	0:13	.0038	0.97	9071	1.81
-0006	0.15	-0039	1.00	-0072	1.84
-0007	0:18	.0040	1.02	10073	1.86
*0008	0.20	*0041	1.05	10074	1.89
4000a	0.23	0042	1.07	10075	1.91
-0010	0.26	*0043	1.10	-0076	1.94
-0011	0.28	10014	1.12	.0077	1.96
0012	0.31	-0045	1:15	-0078	1:99
-0013	0.33	-0046	1.17	-0079	2.02
-0014	0.36	-0047	1.20	-0080	2.04
-0015	0:38	-0048	1.22	0081	2.07
-0016	0.41	-0049	1.25	.0082	2.09
-0017	0.43	-0050	1.28	-0083	2:12
-0018	0.46	-0051	1.30	10084	2.14
*0019	0.48	*0052	1:33	-0085	2.17
-0020	0.51	-0053	1.35	-0095	2.19
-0021	0.54	-0054	1.38	-0067	2-22
0022	0.56	'0055	1:40	-0088	2-25
-0023	0.29	-0056	143	-0089	2.27
10024	0.61	10057	145	*0090	2:30
+0025	0.64	10058	1:48	0091	2-32
-0026	0.66	:0059:	1.51	-0092	2.35
-0027	0.69	-0060	1.53	-0093	2:37
10028	0.71	1800-	1.26	0094	2.40
-0029	0.74	-0062	1.58	10095	2.42
*0030	0.77	-0063	1.61	-0096	2:45
-0031	0.79	-0064	1:63	-0097	2:47
'0032	0.82	10065	1.66	-0098	2.50
-0033	0.84	-0066	1.68	-0099	2.52
					_

TABLE XCIV-C.

TIME-EQUIVALENTS.

NAKSHATEA-INDEX UNITS.

45				-		1	-
3rg.	н. м. в.	Arg.	н. м. s.	Arg.	н. м. s.	Arg.	н. м. s.
1	0 3 56-08	31	2 1 57-84	61	3 59 59-61	91	5 58 1.39
2	0 7 52-12	32	2 5 53-90	62	4 3 55-67	92	6 1 57.45
3	0 11 48:18	33	2 9 49 95	63	4 7 51.73	93	6 5 53-51
4	0 15 44:24	34	2 13 46-01	64	4 11 47:79	94	6 9 49-57
.5	0 19 40:30	35	2 17 42 07	65	4 15 43-85	95	6 13 45-63
6	0 23 36-36	36	2 21 38-13	66	4 19 39-91	96	6 17 41-69
7	0 27 32-41	37	2 25 34-19	67	4 23 35-97	97	6 21 37.75
8	0 31 28 47	38	2 29 30-25	68	4 27 32-03	98	6 25 33.80
.9	0 35 24-53	39	2 33 26-31	69	4 31 28-09	99	6 29 29 86
10	0 39 20-59	40.	2 37 22 37	70	4 85 24-15	100	6 83 25-92
11	0 48 16-65	41	2 41 18 43	71	4 39 20-21	200	13 0 51.85
12	0 47 12-71	42	2 45 14:49	72	4 43 16-26	300	19 40 17-78
13	0 51 877	43	2 49 10-55	73	4 47 12-32		
14	0 55 4.83	44	2 53 6-61	74	4 51 8-38		1000
15	0 59 0-89	45	2 57 2-67	75	4 55 444	-/2	
16	1 2 56-95	46	3 0 58-72	76	4 59 0-50		
17	1 6 53-01	47	3 4 54-78	77	5 2 56-56		
18	1 10 49 07	48	3 8 50-84	78	5 6 52-62		
19	1 14 45.13	49	3 12 46-90	79	5 10 48-68		
20	1 18 41.18	50	3 16 42-96	80	5 14 44.74	11.0	
21	1 22 37:24	51	3 20 39-02	81	5 18 40-80	10.00	
22	1 26 33 30	52	3 24 35-09	82	5 22 36-86	114.0	DE HIND
23	1 30 29 36	53	3 28 31:14	83	5 26 32-92		
24	1 34 25 42	54	3 32 27-20	84	5 30 28-98	1 3	
25	1 38 21:48	55	3 36 23:26	85	5 34 25 03		
26	1 42 17:54	56	3 40 19-32	86	5 38 21-09		
27	1 46 13-60	57	8 44 15 38	87	5 42 17:15		
28	1 50 9-66	58	3 48 11-44	88	5 46 13:21		and the last
29	1 54 5-72	59	3 52 7:49	89	5 50 9-27		
26	1 68 1.78	60	3 56 3.55	90	5 54 5 33		1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
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TABLE XCIV-D.

TIME-EQUIVALENTS.

DECIMALS OF NAKSHATRA-INDEX UNITS.

First 2 decimals.	м. s.	First 2 decimals.	м. s.	First 2 decimals,	M. 8.
-01	0 2:36	-34	1 20-26	-67	2 38-16
-02	0 4.72	-35	1 22-62	•68	2 40-52
-03	0 7-08	-36	1 24-98	-69	2 42-88
-04	0 9:44	.37	1 27:34	•70	2 45.24
-05	0 11:80	-38	1 29.70	-71	2 47:60
-06	0 14:16	-39	1 32-06	-72	2 49-96
07	0 16-52	:40	1 34:42	-78	2 52-32
-08	0 18 88	-41	1 36-78	*74	2 54-68
-09	0 21-25	-42	1 39-14	-75	2 57-04
·10	0 23:61	'43	1 41.51	-76	2 59-40
-11	0 25-97	*44	1 43.87	-77	3 1.77
-12	0 28:33	45	1 46.23	-78	3 4:13
.13	0 30-69	:46	1 48-59	-79	3 6-49
14	0 33.05	-47	1 50-95	-80	3 8.85
.15	0 35.41	*48	1 53-31	*81	3 11-21
-16	0 37:77	-49	1 55-67	-82	3 13-57
-17	0 40 13	•50	1 58.03	-83	3 15-93
-18	0 42-49	.21	2 0.39	-84	3 18-29
•19	0 44.85	-52	2 2.75	-85	3 20-65
•20	0 47:21	-53	2 5.11	-86	3 23.01
*21	0 49-57	-54	2 7-47	-87	3 25-37
*22	0 51 93	*55	2 9.83	-88	3 27-73
*23	0 54:29	-56	2 12-19	-89	3 30-09
.24	0 56-65	*57	2 14:55	-90	3 32.45
-25	0 59-01	*58	2 16-91	-91	3 34.81
-26	1 1.38	*59	2 19-28	-92	3 37-17
-27	1 374	+60	2 21-64	-93	3 39-54
*28	1 6.10	-61	2 24-00	-94	3 41-90
-29	1 8.46	-62	2 26-36	-95	3 44 26
-30	1 10-82	-63	2 28-72	-96	3 46-62
-31	1 13:15	-64	2 31-08	-97	3 48-98
-32	1 15.54	-65	2 33-44	-98	3 51:34
*33	1 17-90	-66	2 35-80	-99	3 53-70
2,200	E- CHIPAL		and the same of th		-

					-
3rd and 4th decimals.	8.	3rd and 4th decimals.	8,	3rd and 4th decimals.	8.
-0001	0.02	-0034	0.80	-0067	1.28
*0002	0.05	*0035	0.83	:0008	1:61
-0003	0.07	-0036	0.85	-0069	1.63
*0004	0.09	0037	0.87	0070	1.65
-0005	0.12	-0038	0.90	*0071	1.68
-0006	0:14	-0039	0.92	0072	1-70
-0007	0.17	-0040	0.94	0078	1-72
-0008	0.19	-0041	0.97	10074	1-75
-0009	0.21	*0042	0.99	-0075	1-77
+0010	0.24	-0043	1:02	-0076	1.79
*0011	0.26	*0044	1.04	-0077	1.82
.0013	0.28	-0045	1.06	0078	1.84
-0013	0.31	-0046	1.09	0079	1.86
.0014	0.33	0047	1.11	-0080	1.89
.0012	0.35	-0048	1.13	-0081	1-91
-0016	0.38	-0049	1.16	-0082	1-94
-0017	0-40	*0050	1.18	-0083	1.96
.0018	0.42	-0051	1.20	0084	1.98
-0019	0.45	+0052	1:23	-0085	2.01
-0020	0.47	-0053	1.25	-0086	2.03
-0021	0.50	*0054	1:27	+0087	2.05
-0022	0.52	-0055	1.30	-0088	2.08
*0023	0-54	-0056	1.32	10089	2.10
*0024	0.57	-0057	1.35	-0090	2:12
*0025	0.59	*0058	1.37	-0091	2-15
-0026	0-61	-0059	1.39	-0092	2.17
10027	0.64	-0060	1.42	10093	2.20
-0028	0.66	-0061	1.44	-0094	2-22
-0029	0.68	-0062	1:48	-0095	2.24
-0030	0.71	-0063	1.49	-0096	2 27
*0031	0.73	-0064	1.21	10097	2-29
-0032	0.76	-0065	1.58	-0098	2:31
-0033	0.78	*0066	1.56	*0:399	2 34

TABLE XCIV-E.

TIME-EQUIVALENTS.

YOGA-INDEX UNITS.

7			1 0GA-1ND1	X UNI	Tales .		
Arg.	н. м. 8.	Arg.	н. м. 8.	Arg.	Н. М. 8.	Arg.	н, м. в.
1	0 3 39-63	31	1 53 28-55	61	3 43 17-47	91	5 33 6-89
2	0 7 19-26	32	1 57 8:18	62	3 46 57:10	92	5 36 46-02
3	0 10 58-89	33	2 0 47-81	63	3 50 36-73	93	5 40 25-65
4	0 14 38-52	34	2 4 27-44	64	3 54 16-36	94	5 44 5-29
ő	0 18 18-15	35	2 8 7-07	65	3 57 56-00	95	5 47 44-92
6	0 21 67-78	36	2 11 46-71	66	4 1 35-63	96	5 51 24-55
7	0 25 37-41	37	2 15 26-34	67	4 5 15-26	97	5 55 4:18
8	0 29 17-05	38	2 19 5-97	68	4 8 54-89	98	5 58 43 81
9	0 32 56-68	39	2 22 45-60	69	4 12 34-52	99	6 2 23-44
10	0 36 36 31	40	2 26 25 23	70	4 16 14:15	100	6 6 3-07
11	0 40 15:94	41	2 30 4.86	71	4 19 53-78	200	12 12 6-14
12	0 43 55-57	42	2 33 44-49	72	4 23 33-41	300	18 18 9-21
13	0 47 35-20	43	2 37 24-12	73	4 27 13-04	- "	
14	0 51 14 83	44	2 41 3.75	74	4 30 52-67	1 1	
15	0 54 54.46	45	2 44 43 38	75	4 34 32-30		
16	0 58 34:09	46	2 48 23-01	76	4 38 11-93		
17	1 2 13-72	47	2 52 2-64	77	4 41 51:56		
18	1 5 53:35	48	2 55 42-27	78	4 45 31-19	1 (
19	1 9 32-98	49	2 59 21-90	79	4 49 10-83	100	
20	1 13 12-61	50	3 3 1-53	80	4 52 50-46		
21	1 16 52-24	51	3 6 41-17	81	4 56 30-09	20	
22	1 20 31.88	52	3 10 20-80	82	5 0 9.72		
23	1 24 11:51	53	3 14 0-43	83	5 3 49-35		
24	1 27 51-14	54	3 17 40-06	84	5 7 28-98	124	A DESCRIPTION OF THE PERSON OF
25	1 31 30-77	55	3 21 19-69	85	5 11 8-61	113	- 16116
26	1 35 10:40	56	3 24 59-32	86	5 14 48:24	(at the	
27	1 38 50-03	57	3 28 38-95	87	5 18 27-87		
28	1 42 29-66	58	3 32 18-58	88	5 22 7.50		
29	1 46 9-29	59	3 35 58-21	89	5 25 47-13		
30	1 49 48-92	60	3 39 37-84	90	5 29 26-76	- 10	
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TABLE XCIV-F.

TIME-EQUIVALENTS.

DECIMALS OF YOGA-INDEX UNITS.

First 2 decimals.	M. S.	First 2 decimals.	м. 8.	First 2 docimals.	M. S.
-01	0 2.20	-34	1 14-67	-67	2 27-15
-02	0 4:39	-35	1 16-87	-68	2 29-35
-03	0 6.59	-36	1 19:07	-69	2 31-55
-04	0 8.79	-37	1 21:26	-70	2 33-74
-05	0 10-98	-38	1 23 46	-71	2 35-94
-06	0 13:18	-39	1 25.66	-72	2 38-13
-07	0 15:37	*40	1 27.85	-73	2 40-33
-08	0 17:57	*41	1 30.05	74	2 42.53
-09	0 19-77	142	1 32-24	-75	2 44-72
-10	0 21.96	43	1 34:44	-76	2 46-92
-11	0 24:16	144	1 36-64	-77	2 49-12
-12	0 26:36	45	1 38.83	.78	2 51-31
13	0 28-55	*46	1 41-03	-79	2 53-51
-14	0 30-75	-47	1 43.23	-80	2 55-70
-15	0 32-94	48	1 4542	-81	2 57-90
-16	0 35.14	49	1 47-62	-82	3 0-10
-17	0 37-34	+50	1 49-82	-83	3 2-29
-18	0 39-53	-51	1 52-01	*84	3 4-49
.19	0 41.73	-52	1 54-21	-85	3 6-69
-20	0 43.93	-53	1 56:40	-86	3 8.88
-21	0 46-12	-54	1 58.60	-87	3 11:08
-22	0 48-32	*55	2 0.80	-88	3 13-28
-23	0 50-52	-56	2 2.99	-89	3 15-47
-24	0 52.71	-57	2 5:19	-90	3 17-67
-25	0 54:91	-58	2 7:39	-91	3 19-86
-26	0 57-10	-59	2 9.58	+92	3 22-06
-27	0 59-30	-60	2 1178	-93	3 24-26
28	1 1.50	-61	2 13-97	-94	3 26-45
-29	1 3.69	-62	2 16:17	•95	3 28-65
:30	1 5.89	-63	2 18:37	-96	3 30-85
-31	1 8.09	164	2 20-56	-97	3 33-04
-32	1 10-28	-65	2 22-76	-98	3 35-24
-33	1 12:48	-66	2 24:96	-99	3 37.43
1					

INDEA CE	1110.				
3rd and 4th decimals.	8.	3rd and 4th decimals.	s.	3rd and 4th decimals.	s.
-0001	0.02	-0034	0-75	-0067	1-47
*0002	0.04	0035	0.77	-0068	1.49
-0003	0.07	-0036	0.79	-0069	1.52
:0004	0.09	0037	0.81	10070	1.54
-0005	0.11	-0038	0.83	-0071	1.56
:0006	0-13	-0039	0.86	-0072	1.58
-0007	0.15	-0040	0.88	-0073	1.60
-0008	0.18	-0041	0.90	-0074	1-63
-0009	0-20	0042	0.92	-0075	1.65
-0010	0.22	-0043	0.94	-0076	1.67
-0011	0.24	-0044	0.97	-0077	1.69
-0012	0.26	-0045	0.99	-0078	1.71
-0013	0.29	-0046	1.01	-0079	1.74
-0014	0.31	-0047	1.03	-0080	1-76
.0015	0.33	-0048	1.05	-0081	1.78
-0016	0.35	-0049	1.08	-0082	1.80
0017	0.37	-0050	1.10	10083	1.82
-0018	0.40	-0051	1.12	*0084	1:84
-0019	0.42	-0052	1:14	-0085	1.87
-0020	0.44	-0053	1.16	-0086	1.89
-0021	0.46	-0054	1.19	-0087	1.91
-0022	0.48	-0055	1.21	-0088	1-93
0023	0.51	-0056	1.23	:0089	1-95
-0024	0.53	-0057	1.25	-0090	1.98
*0025	0.55	-0058	1.27	-0091	2.00
-0026	0.57	-0059	1.30	-0092	2:02
-0027	0.59	-0060	1.32	-0003	2'04
-0028	0.61	-0061	1.34	-0094	2:06
-0029	0.64	-0062	1.36	-0095	2.09
-0030	0-66	-0068	1.38	-0096	2.11
-0031	0.68	-0064	1:41	-0097	2:13
-0032	0.70	-0065	1:43	-0098	2.15
+0033	0-72	-0066	1.45	-0099	2.17
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TABLES FOR FINDING THE MEAN PLACE OF THE PLANET SATURN.

BY J. F. FLEET, I.C.S. (RETD.), PH.D., C.I.E.

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In examining the astrological details of a date in Saka 380 (J. R. A. S., 1915, p. 482), I had to work out the bases for tables, and to make parts of the tables themselves, for finding the mean place of the planet Saturn, that is, his mean longitude, according to the First Ārya-Siddhānta and the Original and Present Sūrya-Siddhāntas. It has seemed useful to complete the tables and publish them, with examples of the use of them, so that they may be available for any future work of the same kind.\(^1\) At the same time, I seek to give them an interest by attaching some general remarks and showing the bases from which they have been made.

GENERAL REMARES.

The starting-point of my tables is the beginning of the Kaliyuga era in B.C. 3102, when, according to the Hindū astronomy, there was the latest recurrence of a conjunction of all the planets (including the sun and the moon), by their mean longitudes, at the initial point of the Hindū sphere, namely, the point 0° of the sidereal sign Mēsha (Aries). According to the First Ārya-Siddhānta this conjunction was at mean sunrise, 6.0 a.m., for the prime meridian of Lankā-Ujjain, on 18 February in the said year. According to the two Sūrya-Siddhāntas it was at the preceding midnight.

The years in my tables are the mean sidereal solar years of the Kaliyuga: and, as a first step in using the tables, for any given year of the Saka or any other Hindu era, or of our era, we must take the corresponding year of the Kaliyuga. Each year is the period in which the sun by mean motion travels round the circle of the heavens from the point 0° of the sign Mēsha back to the same point. The length of this year differs slightly according to each of the three authorities, as a result of the difference in the number of days assigned by them (see farther on, under the Bases) to the excliptors or calculative period of 4,320,000 years which constitutes the Yuga, Mahāyuga, or Chaturyuga, the cycle of Four Ages. The lengths of the years are as follows:

					days.	d.	h.	101.	8.
First Arya-S	2	4		1/4	365-2586805	=365	6	12	30
Original Sürya-S.	1	141	- 2	-	365-25875	=365	6	12	36
Present Sarya-S.		1.5			36 -258756481	=365	6	12	36:56

The days are mean natural or civil days, each of exactly twenty-four hours. For calculative purposes they run from mean sunrise to mean sunrise according to the First Ārya-Siddhānta, and from the preceding midnight to midnight according to the two Sūrya-Siddhāntas. But for ordinary use the Hindū day runs from true sunrise to true sunrise according to both the schools.

The revolution of Saturn is his journey round the heavens, through the twelve signs of the zodiac and the twenty-seven nakshatras or "lunar mansions", from the point 0° of the sign

¹ Tables by Professor Jacobi (on quite different lines) for finding both the mean and the true places of all the planets according to the Present Sūrya-Siddhānta, have been published in the Epigraphia Indica, Vol. 12, p. 79 ff. I had not seen these when my paper in question was written. Professor Jacobi's process is a shorter one, as a result of much work done by him in making his tables. But his tables do not make mine unnecessary, even for the Present Sūrya-Siddhānta; in the first place, because we want, for any time before about A.D. 1000. a much earlier guide than that work; and secondly, because they do not give the very close results which are to be got from my tables.

² On this matter see my paper on the Kaliyuga in J. R. A. S., 1911, p. 493.

^{*} We might, of course, lay down as an additive constant the place of Saturn, according to each of the three authorities, for the beginning of the Saka era in A.D. 78, or for any other chosen time, and then work for only the remaining years. Fut in my opinion little, if anything, is really gained by that method.

Mesha back to the same point. His revolution and longitude are, of course, geocentric; the earth being regarded as the centre of the universe in the Hindu astronomy.

From Table I, which gives Saturn's mean yearly motion, we get, as the first step in any working, the number of revolutions completed by him, and, over and above that, his mean place or longitude in signs, degrees, minutes, and seconds, reckoned from the point 0° of Mēsha, at the moment of the mean Mēsha-samkrānti, or entrance of the sun into Mēsha, of the given year; that is, at the moment of the mean vernal equinox, which is the astronomical beginning of the year. The date and time of that moment may be ascertained from Sewell and Dikshit's Indian Calendar. Table I, taken with the intervals between the true and mean Mēsha-samkrāntis given on p. 12, and Sewell's Indian Chronography, tables 17 and 38, A, and p. 57. It is not always necessary to reduce Saturn's place at that moment to his place at mean suprise on that same day, as I have done in Example 1 below (p. 616): but it is generally useful to do so; especially if we are likely to work for more days than one in one and the same year.

In using Table I, the seconds in the first nine years may be turned into even numbers by rejecting anything up to '5 and taking anything over '5 as 1 to be added to the integral number.

Table II, which gives Saturn's mean daily motion and supplies what is wanted for finding his mean place or longitude at any subsequent time in the same year, is in two parts: A, for general use, with the seconds treated on those same lines; and B, for closer work, with the actual seconds to three places of decimals, determined by rejecting anything up to 0005 and treating anything over that as 1 to be added to the third figure.

Results worked from Table I, with the seconds treated as indicated above, and Table II, Part A, will be close enough for all general purposes. But, if it is ever necessary,—as, for instance if a resulting place is very near to the beginning of a sign or a nakshatra, when a few seconds of arc may make a difference in the sign or the nakshatra; or if a resulting time is very near to sunrise, when a few minutes of time or seconds of arc may make a difference in the day,—to get a still closer result, then we must work with the decimals given in Table I and Table II, Part B, and must also use actual minutes and seconds, instead of even minutes, in the time of the Mēsha samkrānti: in short, we must then work with exactness all through.

Means may perhaps be added hereafter for finding the true place of Saturn, that is, his true or apparent longitude. But that does not seem necessary at present: there are various indications that the mean places are the right ones to take for the planets down to at any rate about A.D. 1000. And certainly, if a statement about any planet is found to be correct for its mean place though not for its true place, we need not condemn the statement on that account.

In addition to the details given in the next section, which explains the bases of my tables the following may be noted here:—

The period of Saturn, the time in which he makes one revolution, works out according to the three authorities as follows:—

In terms of the mean Julian year of 365.25 days, these figures represent-

These cannot be expressed exactly in years, months, and days, because our months have not a uniform number of days. But, with the month taken at 365 25 ÷ 12 = 30 4375 days, they represent (say)—

The periods given above are geocentric, as has already been said. Modern science gives the period of Saturn's sidereal revolution round the sun as—

10759-2198 days, 1== 29.457... years,

Slightly better Hindû approximations were got by Lalla and the person 'who devised the corrections for the *Present Sūrya-Siddhānta*: see pp. 603, 605, below. Of these, Lalla's result was the nearer, but only by a little more than three minutes: this is due to his excliquos being shorter by 328 days.

BASES OF THE TABLES.

First Ārya-Siddhanta.

By this name is meant the Āryabha(iya, which was written by Āryabhaṭa at Kusumapura, i.e., Pāṭaliputra, Paṭna, in or soon after A.D. 499.³ The text, with the commentary by Paramā-diévara, has been edited by Professor Kern (Leiden, 1874). Its elements in this matter are:—

146,564 revolutions of Saturn in the Yuga of 4,320,000 years comprising 1,577,917,500 days.

The mean yearly motion is-

$$\frac{146564 \times 360^{\circ}}{4320000} = 12^{\circ} \cdot 2136 = 12^{\circ} \cdot 12' \cdot 49 \cdot 2'$$

The mean daily motion is-

$$\frac{146564 \times 360^{\circ} \times 60'}{1577917500} = 2' \cdot 0063041318...$$

=2' 0":3782479122...

Saturn's period of revolution has been given on p. 601 above. A sign being one-twelfth of a revolution, and a nakshatra being one-twenty-seventh of the same,³ it follows that he spends in one sign 897-1720545290 days,=2:4563232156 Julian years, or (say)—2y, 5m. 14:48455d.; and in one nakshatra 398-7431353462 days, or (say)—398d. 17h. 50:11490m.

Lalla, who was the exponent of Aryabhata and seems to have written in the period A.D. 600-650, introduced certain bijas or corrections for the mean motions of all the planets, to be applied to the First Ārya-Siddānta with effect from the year Śaka 420 expired, so as to bring their calculated places into agreement with their places as determined by observation. In the case of Saturn he added $\frac{20'}{250} = 4^{\circ}$ -8, by which he raised the mean yearly motion from 12° 12′ 49′-2 to 12° 12′ 54′. Since one revolution in 4,320,000 years would represent 0°-2 mean yearly

¹ Lockyer, Elementary Lessons in Astronomy (1907), p. 350.

See my paper in J. R. A. S., 1911, p. 110.

That is, according to the equal-space system, by which each wakshates measures 13° 20'

^{*} Son his Sinkundhirriddhida, ed. Sudhakars Deivedi, Benares, 1886, p. 10 verses 59, 60; p. 50 verses 18, 19,

motion, and 48 divided by 0.3 = 16, this bija had the effect of increasing the revolutions of Saturn in such a period from 146,564 to $146,580^{\circ}$; and (since the number of days in the exclignes remained the same) of increasing also the mean daily motion, and of shortening the period of revolution. Thus, according to Lalla,—

The mean yearly motion became-

$$\frac{146580 \times 360^{\circ}}{4320000} = 12^{\circ}.215 = 12^{\circ}.12^{\circ}.54^{\circ}$$

The mean daily motion became-

$$\frac{146580 \times 360^{\circ} \times 60'}{1577917500} = 2' \cdot 0065231547...$$

=2' 0":3913892836...

And Saturn's period of revolution became-

The place of Saturn according to Lalla is got by adding 4°8 for each year after Saka 420 expired, = Kaliyuga 3599 expired, to his place as found according to the First Ārya-Sādāhānta

Original Sürya-Siddhanta.

This work is only known from Varāhamihira's statements about it in his Pañchasiddhāutikā, which was written about A.D. 550.2 The Siddhānta itself (its author is not known) seems to date from much about the same time with the First Ārya-Siddhānta, but is perhaps rather earlier than that work. The Pañchasiddhāntikā has been edited by Dr. Thibant and the Mahāmahāpādhyāya Sudhakara Dvivedi, with a Sanskrit commentary by the editors and an English translation (Benares, 1889). Here the elements are:—

146,564 revolutions of Saturn in 4,320,000 years comprising 1,577,917,800 days.3

The number of revolutions being the same, the mean yearly motion is also exactly the same as by the First Ārya-Siddhānta; viz.—

$$\frac{146564 \times 360^{\circ}}{4320000} = 12^{\circ} \cdot 2136 = 12^{\circ} \cdot 12^{\circ} \cdot 49^{\circ} \cdot 2:$$

and so the place of Saturn according to this work at the beginning of a year differs from his place according to the First Ārya-Siddhānta only in proportion to the time by which the mean Mēsha-samkrānti of this work differs from that of the mean Mēsha-samkrānti of the First Ārya-Siddhānta.

The number of days being more by 300, the mean daily motion is slightly less, viz. -

$$\frac{146564 \times 360^{9} \times 60'}{1577917800} = 2' \cdot 0063037504...$$

$$= 2' \cdot 0'' \cdot 3782259252...$$

¹ Lalla, however, did not put his corrections in this shape.

There is a very useful paper on the Original Sürya-Siddhänta, by Sh. B. Dikshit, in the Indian Antiquary, Vol. 19 (1890), p. 45. It seems likely that the text of the work might be found in Eurma of Arakan, as it has been followed there down to quite recent times: see, e.g., Sir Alfred Irwin's Burmese and Arakanese Calendars (1900), p. 3, and his "Elements of the Burmese Calendar from A.D. 638 to 1752" in Ind. Ant., 1910, p. 289.

The actual excliquous or calculative period of this work is one of 180,000 years comprising 65,746,575 days, and the numbers of the revolutions of the planets are not stated in actual words. The editors have worked out the numbers of the revolutions for the longer excliquos from the details given in Pañchasiddhāntikā, Chapter 1b; see trans., p. 91; comment., p. 88; introd., p. 19.

Saturn's period has been given on p. 612 above. It follows that he spends—
in one sign . 897-1722251030 . days,=
2-4563236826... Julian years, or (say)—
2y. 5m. 14-48473d.; and—
in one makihatra 398-7432111569 ... days, or (say)—
398d. 17h. 50-22407m.

Present Sürya-Siddhanta.

This work is well known from the translation by E. Burgess, with Whitney's invaluable notes, published in the Journal of the American Oriental Society, Vol. 6 (1860), pp. 141-498. Its text, with the commentary by Ranganatha, has been given by F. E. Hall and Pandit Bapu Deva Sastri in the Bibliotheca Indica series (Calcutta, 1859) and by Pandit Hari Shankar (Benares, 1881). It is not known when and by whom the work was written. But, as was pointed out by Whitney (loc. cit., p. 424), its general system is older than that of Bhaskara-charya's Siddhānta Sirōmani (written A.D. 1150). And Sh. B. Dikshit has said that it superseded the Original Sarya-Siddhānta probably not later than A.D. 1000. Bhattotpala, writing his commentary on the Brihat-Samhitā, Chapter 2, at some time about A.D. 966 does not seem to quote there any of the elements in which the Present differs from the Original Sūrya-Siddhānta. According to this work, the elements in our present matter are:—

146,568 revolutions of Saturn in 4,320,000 years comprising 1,577,917,828 days; which figures increase the yearly and daily motion and shorten the period of revolution.

The mean yearly motion is-

$$\frac{146568 \times 360^{\circ}}{4320000} = 12^{\circ} \cdot 214 = 12^{\circ} \cdot 12^{\circ} \cdot 50^{\circ} \cdot 4$$

The mean daily motion is-

$$\frac{146568 \times 360^{\circ} \times 60'}{1577917828} = 2' \cdot 0063584705...$$

=2' 0":3815082314...

Saturn's period has been given on p. 601 above. It follows that he spends—
in one sign . 897:1477562178... days, =

2:4562566905... Julian years, or (say)—
2y. 5m. 14:46026d.; and—
in one nakshatra 398:7323360968... days, or (say)—
398d. 17h. 34:56398m.

The elements of the Present Sūrya-Siddhānta, that, is, its number of days for the 4,320,000 years and its numbers of the revolutions of the planets in that period, may be regarded as the results of bijas or corrections applied to the Original Sūrya-Siddhānta. To the Present Sūrya-Siddhānta itself certain bijas were applied in the fifteenth century, with effect from the beginning of the Kaliyuga; and by one of them the number of revolutions of Saturn was raised to 146,580 in the exclipmos of the same number of years and days.³

¹ There is also a translation, with a few notes, by Pandit Bapu Peva Sastri (Calcutta, 1861).

² Indian Calendar, p. 8.

^{*} For a useful note on these bijas, see Sh. B. Dikshit's Bhāratiya-Jyāthhāstra or "History of Indian Astronomy," p. 184. Who derised these corrections is not known: but they are stated in the shape of the resulting numbers of the revolutions, in the Makaranda, a work composed by an author of that same name, a resident of Benares, who is behaved to have written it in A.D. 1478. It seems to be only by a coincidence that the number of revolutions thus assigned to Saturn, viz. 146,580, is the same with that which results from the correction for Saturn applied by Lolla to the First Arga-Saddhānta.

This further raised-

the mean yearly motion to 12° 215=12° 12' 54°, and

the mean daily motion to 2' 0" 3913642560 ...;

and reduced-

the period of revolution to 10764 8917178332 ... days.

The place of Saturn according to this bija is got by adding 3°6 for each year, from the beginning of the Kaliyaga, to his place as found according to the Present Sarya-Siddhanta.

EXAMPLES.

The place of Saturn means here his place by mean motion; that is, his mean longitude. The times are for mean sunrise, 6.0 a.s., at Ujjain, the Hindū Greenwich,

The nakshatras are taken according to the equal-space system, by which each of them measures 13° 20'.1

 What was the place of Saturn, according to the First Ārya-Siddhānta, at mean sunrise on 25 August, A.D. 458, on which day there began the tithi Āsvina šukla 1, Šaka 380 expired?

Saka 380 expired being the Kaliyuga year 3559 expired, we proceed as follows; omitting the revolutions as not being wanted for present purposes, but bearing in mind that every twelve signs add one more revolution, and that we have to take into account here only the excess over the revolutions:—

By Table I, col. A:-

					Signs.			10
years: 3000	1		74	240	. 9	11	0	0
500		- 0			. 11	16	50	0
50	-				. 8	10	41	0
9		- 4			. 3	19	55	23
50 9					170			

Place of Saturn at mean Mēsha-samkrānti, Šaka 380 expired, viz, on 20 March, A.D. 458, at 15^h 27^{m 2} . . . 8 28 26 23

We reduce this for mean sourise on that same day by deducting his motion for 15^h 27^m or say 15^h 24^m, at 1 hour=5" and 12 minutes=1', =77', =1' 17":—

from	- 2	3.50		. 20	8	28		
deduct for 15h 24m			1.00	. *			1	17
						_		-

Place of Saturn at mean sunvise on 20 March, A.D. 458 . 8 28 25 6

Since 20 March is the day 79 of the year A.D. 458, and 25 August is the day 237, we proceed for 237-79=158 days, which will take us from any particular moment (in this case, mean sunvise) on 20 March to the same moment on 25 August:—

				-27/1		Signs.	0	,	"
Therefore to						8	28	25	6
add for days (T	able 1	I, Pa	rt A)	-					
days: 100				1141			3	20	28
50			113				1	40	19
8	*	(#)	(*	950	8.1			16	3
						100	10		1117
turn at mean sunr	ise on	25 A	ngust	. A.D.	458	9	3	12	Ê

^{&#}x27; For the necessary details of the makehatras, according to both this system and the two systems of unequal spaces, are Sewell's Indian Chronology. Table 22.

Place of Sat

See Indian Calendar, Table I. [R. S.]

^{*} Ind. Cal., Table IX, or above. Table LXIX. [R. S.]

Accordingly, at mean sunrise on the given day, Saturn had completed nine signs of his current revolution, and was at the point 3° 42′ 6° of the tenth sign Makara (Capricornus).

Also, since 9° 3°=273°, and the nakshatra Uttara-Ashādhā begins at 266° 40′ and ends at 80°, he was at the point 273° 42′ 6′ -266° 40′=7° 2′ 6′ of that nakshatra.

2. When, according to the First Ārya-Siddhānta, did Saturn enter the wakshatra Uttara-Ashāḍhā, in which, as we have found above, he was on 25 August, A.D. 458, in Śaka 380 expired?

It is seen almost at a glance that this must have been before the beginning of Saka 380 expired, i.e., in the preceding Saka year. Accordingly, we proceed as follows:—

From Example 1:-	Signs.	0	1	-
Place of Saturn at mean Mesha-samkranti, Śaka 380 expired	8	28	26	23
Deduct mean yearly motion for one year (Table I, col. A)		12	12	49
Place of Saturn at mean Mesha-samkranti, Saka 379 expired, on 20 March, A.D. 457, at 9h 14m1	8	16	13	34
Deduct for 9h 14m, or say 9h 12m, at 1h=5" and 12m=1"				46
Place of Saturn at mean sunrise on 20 March, A.D. 457 Since 8* 16°=256°, and Uttara-Ashāḍhā begins at 266° 40′,—	8	16	12	48
from		256	40	0
deduct place at mean sunrise on 20 March, A.D. 457		256	12	48
remainder		10	27	12

This remainder is the distance which Saturn then had to go to enter Uttara-Ashāḍhi. It amounts to 627' 12', which, at 2' per day, represents roughly (but appreciably less than) 313\frac{1}{2} days. We try for 312 days:—

distance to go							10	27	12
deduct for days (Table I	I, Pa	t A)	-				-		
days: 300		1/4	100		2		10	1	- 53
10	6411	0.00	Teres	-				20	4
2	4	100				4		4	1
							10	25	58
remainder still to go						100		1	14

This remainder being less than the mean motion for one day, viz. 2', we see that we have got the right day.

Now, 20 March being the day 79° of the year A.D. 457, we have 79+312=391-365=26, which tall es us from any particular moment (in this case, mean sunrise) on 20 March, A.D. 457, to the same moment on 26 January, A.D. 458. Accordingly, we have:—

Place of Saturn at mean sunrise on 20 March, A.D. 457		256	12	48	
add for 312 days, as above	- 53	10	25	58	
Place of Saturn at mean sunrise on 26 January, A.D. 458		266	38	46	

¹ See Indian Calendar, Table 1. [R.S.]

Table IX, Indian Calendar, or Table LXIX above. [R. S.]

Saturn then still had to go 1 14', or say 1' 15', to enter Uttara-Ashāḍhā: and at 5' per hour this represents $75 \div 5 = 15$ hours.

Accordingly, he entered Uttara Ashādhā at 15 hours after mean sunrise on 26 January, A.D. 458.

3. In the same period, and again according to the First Ārya-Siddhānta, on what day did Saturn leave Uttara-Ashāḍhā and enter the next nakshatra Śravana?

This can be got from what we have worked under Example 2, thus :-

We have found there that Saturn entered Uttara-Ashāḍhā at 15 hours after mean sunrise on 26 January, A.D. 458.

His time in each nukshatra (see p. 602 above) is 3984 17h 50:11490m,

To the day and time i		inry,	A.D. 4	58			160	V	d. 26	h. 15	m. 0
add for one nakskatra	15 16	74	(0)			8			398	17-	50
deduct days—									425	8	50
in A.D. 458 .			10.	(14)	*		365				
in Jan., A.D. 459	**		16	*7			31				
in Feb., " .		12	3.	7.00	*		28	=	424		
remainder			74	. gan		16	- a	1	1	8	50

That is, he left Uttara-Ashādhā and entered Śravana at 8^h 50^m after mean sunrise on the day 1 after 28 February, that is, on 1 March, A.D. 459.

Remark.—By actual working from the mean Mesha-samkranti in A.D. 458, we should find the time to be 9 hours. The difference, 10 minutes, = less than 1" of longitude, is due to the way in which we have worked, and is negligible for present purposes: we only wanted to fix the day; and the time is so far from sunrise as to leave no doubt as to that. But this process of carrying on—(and so, also, that of carrying back, used under Example 2 by deducting for a year instead of making a separate calculation)—must be used cautiously.

I. MEAN YEARLY MOTION.

			A.	37/84				В,				
	Fri	ret Ānya	AND OI SIDDHAN	nigisal Sé	RVA-	PRESENT SCRYA-SIDDHANFA.						
years.	Rev.	Sign.	0	7	,	Rev.	Sign.	0	,	2 100		
1 2 3 4 5		1 1 2	12 24 6 18.	12 25 88 51 4	49·2 38·4 27·6 16·8 6·0		1 1 2	12 24 6 18 1	12 25 38 51 4	50° 40° 31° 21° 12°		
6 7 8 9		24 24 23 23	13 25 7 19	16 29 42 55	55·2 44·4 33·6 22·8		2 2 3 3	18 25 7 19	17 29 42 55	2- 52- 43- 33-		
10 20 30 40 50	1 1 1	4 8 0 4 8	2 4 6 8 10	8 16 24 32 41	12·0 24·0 36·0 48·0 0·0	1 1	4 8 0 4 8	2 4 6 8 10	8 16 25 33 42	24: 48: 12: 36: 0:		
60 70 80 90	2 2 2 3	0 4 8 0	12 14 17 19	49 57 5 13	12·0 24·0 36·0 48·0	2 2 2 3	0 4 8 0	12 14 17 19	50 58 7 15	24: 48: 12: 36:		
100 200 300 400 500	3 6 10 13 16	4 9 2 6 11	21 12 4 25 16	22 44 6 28 50	0.0 0.0 0.0 0.0 (.0	3 6 10 13 16	4 9 2 6 11	21 12 4 25 17	24 48 12 36 0	0: 0: 0: 0: 0:		
600 700 890 900	20 23 27 30	4 8 1 6	8 29 20 12	12 34 56 18	0-0 0-0 0-0 0-0	20 23 27 30	4 8 1 6	8 29 21 12	24 48 12 36	0- 0- 0-		
1000 2000 3000 \$000 5000	33 67 101 135 169	11 10 9 8 7	3 7 11 14 18	40 29 0 40 20	0-0 0-0 0-0 0-0	83 67 101 135 169	11 10 9 8	4 8 12 16 20	0 0 0	0.00		

II. Mean daily motion.

A. For all the three Siddhantas: with even seconds,

For parts of a day, 1 hour=5"; 12 minutes = 1".

days.	0	,	"	days.	0		#	days.	0	,	10	days.	0	1	•
1 2 3 4 5		2 4 6 8 10	0 1 1 2 2	6 7 8 9 10		12 14 16 18 20	2 3 3 4	20 30 40 50 60	1 1 1 2	40 0 20 40 0	8 11 15 19 23	70 80 90 100 200 300	2 2 3 3 6 10	20 40 0 20 41 1	26 ° 30 ° 4 38 16 3 ° .

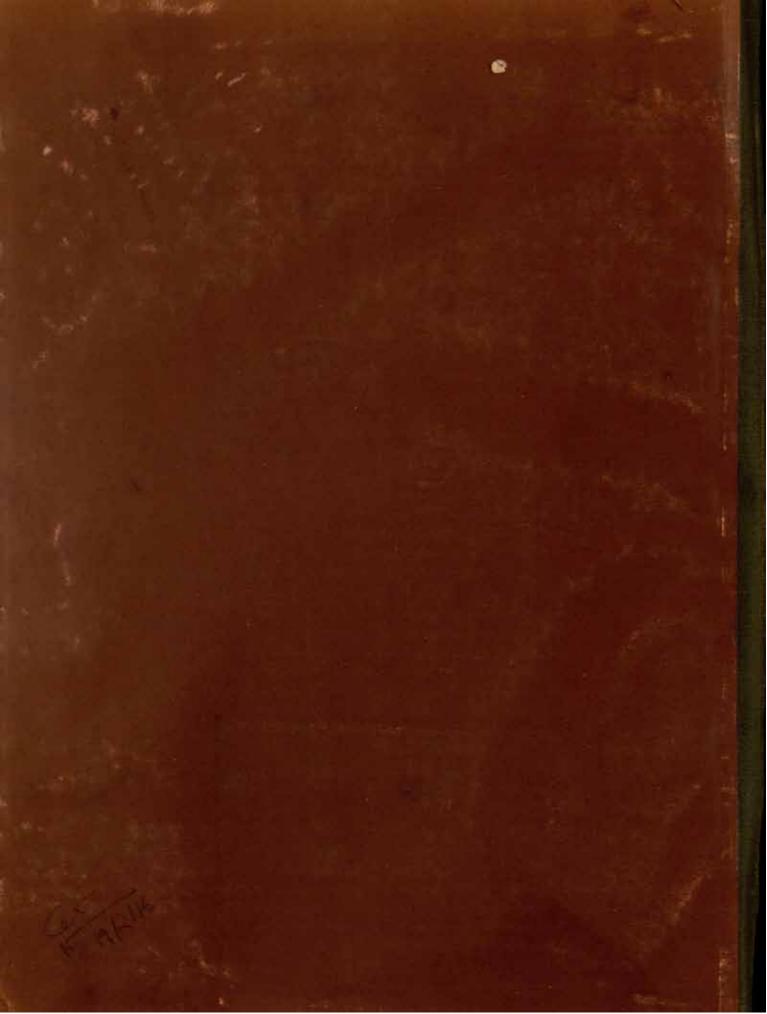
- a For the Present Sarya-Siddhanta, the seconds here are 27.
- b For the Present Surya Siddhauta, the seconds here are 31.
- c For the Present Surya Siddhanta, the seconds here are 54.

B. For the separate Siddhantas: with actual seconds.

FIRST ÄRVA-				ORIGINAL SCRYA.			PRESENT SCRYA.		
days.	0	,	"	0	7	"	0		0
1 2 3 4 5		2 4 6 8 10	0-378 0-756 1-135 1-513 1-891		2 4 6 8 10	0·378 0·756 1·135 1·513 1·891		2 4 6 8 10	0·382 0·763 1·145 1·526 1·908
6 7 8 9		12 14 16 18	2·269 2·648 3·026 3·404		12 14 16 18	2·269 2·648 3·026 3·404		12 14 16 18	2·289 2·671 3·052 3·434
10 20 30 40 50	1 1 1	20 40 0 20 40	3:782 7:565 11:347 15:130 18:912	1 1 1	20 40 0 20 40	3.782 7.565 11.347 15.129 18.911	1 1 1 1 .	20 40 0 20 40	3·815 7·630 11·445 15·260 19·075
60 70 80 90	2 2 2 3	0 20 40 0	22·695 26·477 30·260 34·042	2 2 2 3	6 20 40 0	22-694 26-476 30-258 34-040	2 2 2 3	0 20 40 0	22:890 26:706 30:521 34:336
100 200 300	3 6 10	41	37-825 15-650 53-474	3 6 10	20 41 1	37-823 15-645 53-468	8 6 10	20 41 1	38:15 16:80 54:45

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